DATE:

February 2, 2009

TO:

Mr. Richard McHugh

City of Bridgeport

Office of Planning & Economic Development 999 Broad Street – 2nd Floor

Bridgeport, CT 06604

FROM:

Lucas Hellerich, PhD, PE

AECOM Environment

500 Enterprise Dr, Suite 1A

Rocky Hill, CT 06067

RE:

80 Hastings, Bridgeport, CT Phase III ESA Report

WE ARE SENDING YOU:

X ATTACHED

UNDER SEPARATE COVER VIA

SHOP DRAWINGS

DOCUMENTS

TRACINGS

PRINTS

SPECIFICATIONS

CATALOGS

COPY OF LETTER

OTHER:

QUANTITY	DESCRIPTION
3	Phase III Environmental Site Assessment Report for 80 Hastings Street, Bridgeport, Connecticut

IF MATERIAL RECEIVED IS NOT AS LISTED, PLEASE NOTIFY US AT ONCE

REMARKS:

Lucas Hellerich, PhD, PE

Project Manager

Voice: (860) 263-5800

Fax: (860) 263-5777

PHASE III ENVIRONMENTAL SITE ASSESSMENT REPORT

FORMER PROGRESSIVE PLATING TECHNOLOGIES aka: AUTOMATIC PLATING 80 Hastings Street Bridgeport, Connecticut

Prepared for:

City of Bridgeport Office of Planning and Economic Development 999 Broad Street – 2nd Floor Bridgeport, CT 06604

Prepared by:

AECOM Environment 500 Enterprise Drive, Suite 1A Rocky Hill, CT 06067

TABLE OF CONTENTS

Executive Summaryi			
1.0 Scope and Objectives			
2.0 RSR Criteria			
2.1 Connecticut Remediation Standard Regulations			
2.1.1 Soil Remediation Criteria			
2.1.2 Groundwater Remediation Criteria			
2.2 Summary of RSR Criteria Applied to the Site			
2.3 Proposed Revisions to the Connecticut Remediation Standard Regular			
3.0 Site Description and Environmental Conditions			
3.1 Site Setting			
3.2 Surrounding Properties			
3.3 Previous Investigations			
3.3.1 Phase I ESA and EPA Removal Action			
3.3.2 Phase II ESA			
3.4 Site Surface Drainage			
3.5 Site Utilities			
3.6 Water Supply Wells			
3.7 Surface Water			
3.8 Groundwater			
3.9 Surficial and Bedrock Geology			
4.0 Phase III Investigation Activities			
4.1 Pre-Field Work			
4.2 Soil Borings			
3			
4.5 ACM and LBP Measurement and Sampling			
5.0 Sampling Analytical Results			
5.1 Soil Analytical Results			
5.1.1 Soil Sample Exceedances Due to Revisions to RSRs			
5.2 Groundwater Analytical Results			
5.2.1 Groundwater Sample Exceedances Due to Revisions to RSRs			
5.3 Asbestos Sampling and Screening Results			
5.4 Lead-Paint Screening Results			
5.5 Visual Inspection Observations			
5.6 Statistical Analysis of Select Remediation Results			
5.6.1 Arsenic			
6.0 Data QA/QC			
6.1 QA/QC Samples			
6.1.1 Field Quality Control Samples			
6.1.2 Laboratory Quality Control Requirements			
6.2 Data Validation and Usability / Analytical Precision and Accuracy			
6.3 Data Usability Evaluation			
7.0 Conceptual Site Model			
8.0 Conclusions			
8.1 Soil			
8.2 Groundwater			
8.3 Asbestos Containing Materials			
8.4 Lead-Based Paint			

8.6 Re 9.0 Poter 10.0 Data	ner Recognized Environmental Conditions
Figures Figure 1 Figure 2 Figure 3 Figure 4	Site Location Map Site Plan with RECs and Sample Locations Summary of Soil CTRSR Exceedances Summary of Groundwater CTRSR Exceedances, and Bedrock and Groundwater Elevations
Tables Table 1 Table 2 Table 3 Table 4 Table 5 Table 6 Table 7 Table 8	Summary of Soil and Groundwater Samples Boring Depths and Bedrock Elevations Monitoring Well Construction Details Summary of Soil Sample Analytical Results Summary of Groundwater Sample Analytical Results Summary of Data Qualifications Sample Exceedance Changes Due to Revised RSRs Status of Recognized Environmental Conditions
Appendices Appendix A Appendix B Appendix C Appendix D Appendix E Appendix F Appendix G Appendix H Appendix I	Statement of Limitations Soil Boring Logs Monitoring Well Construction Detail Groundwater Sampling Log Hygenix Limited Asbestos Pre-Demolition Survey Report Hygenix Pre-Demolition Lead-Based Paint Screening Report Laboratory Analytical Data Phase II Summaries of Analytical Results 95% UCL Calculations

Executive Summary

AECOM (formerly Metcalf & Eddy (M&E)) conducted a Phase III Environmental Site Investigation (Phase III) for the Former Progressive Plating Technologies (a.k.a. Automatic Plating) facility in Bridgeport, Connecticut. The work was conducted under an EPA Brownfields Assessment Grant awarded to the City and was performed to assist the City in its effort to facilitate redevelopment of the property. The Phase III investigated the following recognized environmental conditions (RECs):

- REC 2: Soils within the parking lot area were further evaluated for the extent of contamination and potential remediation options.
- REC 3: On-site groundwater was further evaluated for the potential of metals and petroleum contamination from historic metal plating operations and/or seepage from floor drains and compromised sub-grade structures.
- REC 7: The area of the former transformers was evaluated for possible polychlorinated biphenyl (PCB) contamination.
- REC 8: Toxicity characteristic leachate procedure (TCLP) analysis of potential lead-based paint materials was conducted.
- REC 9: Additional sampling of analysis of potential asbestos-containing materials will be performed.
- REC 12: Additional characterization of the vault structure was performed to further evaluate the extent of the total petroleum hydrocarbon (TPH) and lead impacts.
- REC 15: Another loading dock was evaluated for the presence of contaminants using a soil boring.
- REC 16: The chemical storage area on the southeast corner of the building was inaccessible to the drill rig due to large, unmovable containers blocking the entrance. A soil boring was performed just outside the entrance to the storage room to evaluate potential sources of contamination.
- REC 17: A visual inspection and soil boring of the tool room was performed to investigate any potential releases.

The Phase III involved a variety of pre-field and field activities. Pre-field work included: preparation of United States Environmental Protection Agency approved work plans/quality assurance project plans, development of a site-specific health & safety plan, and procurement and coordination with subcontractors. Field work included: 29 soil borings and four monitoring well installations (Glacier Drilling, LLC); a survey of asbestos containing materials and lead-based paint quantities, including analytical sampling of each parameter (Hygenix); analytical laboratory services of 54 soil samples, 1 PCB wipe sample, and one groundwater sample (Con-Test Analytical Laboratory); and surveying services for locations of borings, wells, and major building features (Nafis and Young Engineers).

The following analyses were conducted for soil samples: polychlorinated biphenyls (PCBs); volatile organic carbons (VOCs); extractable total petroleum hydrocarbons (ETPH); Connecticut Department of Environmental Protection (CTDEP) 13 metals; lead; and arsenic. The following analyses were conducted for groundwater samples: hexavalent chromium; ETPH; VOCs; CTDEP 13 metals; and total cyanide. The results of these analyses were compared to criteria provided in the Connecticut Remediation Standard Regulations (RSRs) so that remediation requirements could be evaluated.

The results of these analyses were also compared to the proposed revisions to the RSRs, for informational purposes only. The remediation concepts discussed in this report are based on meeting current RSR standards; however, the remediation concepts may need to be revised if remediation actions at the site are commenced after the proposed revised RSRs become law. These criteria are described in Section 2.

Contaminants were detected at concentrations exceeding the CTRSR criteria in some soil and groundwater samples collected from the sites. A conceptual site model was developed to provide a representation of the nature and extent of contamination in soil and groundwater at the site. This model can be utilized to develop plans subsequent to environmental investigation for remediation and is discussed in Section 7. The exceedances are also discussed with regard to each REC in Section 8.

The City's goal is to have the site remediated in accordance with the Connecticut RSRs under one of Connecticut's Voluntary Remediation Programs and redevelop the site for future commercial or industrial use. Based on the results of the Phase III investigation, remediation of soil and groundwater at the site is required to meet the requirements of the RSRs. It is recommended that a remedial action plan and remediation design that incorporates the RSR requirements and redevelopment strategies be prepared as the next step. A detailed cost estimate for remediation could accompany this plan.

1.0 Scope and Objectives

AECOM Environment (formerly Metcalf & Eddy (M&E)) was contracted by the City of Bridgeport Office of Planning and Economic Development to conduct a Phase III Environmental Site Assessment (ESA) at property located at 80 Hastings Street in Bridgeport, Connecticut (the "site").

The objectives of the Phase III ESA are to better define the extents of contamination found on-site during previous investigations and to provide site environmental condition information to the City of Bridgeport, to assist in the evaluation of future redevelopment opportunities for the site. The Phase III ESA was performed in accordance with the Quality Assurance Project Plan Addendum (M&E, December 2008), which was approved by the United States Environmental Protection Agency (USEPA). This Phase III ESA was focused on further evaluating recognized environmental conditions in soil and groundwater which could pose the most significant effect on redevelopment opportunities at the site. In addition, building materials were further evaluated for the presence of lead and asbestos. Impacted interior building surfaces and equipment associated with former building operations will require characterization and appropriate remediation/decommissioning measures during site redevelopment. The Phase III investigated the following recognized environmental conditions (RECs):

- REC 2: Soils within the parking lot area were further evaluated for the extent of contamination and potential remediation options.
- REC 3: On-site groundwater was further evaluated for the potential of metals and petroleum contamination from historic metal plating operations and/or seepage from floor drains and compromised sub-grade structures.
- REC 7: The area of the former transformers was evaluated for possible polychlorinated biphenyl (PCB) contamination.
- REC 8: Toxicity characteristic leachate procedure (TCLP) analysis of potential lead-based paint materials was conducted.
- REC 9: Additional sampling of analysis of potential asbestos-containing materials will be performed.
- REC 12: Additional characterization of the vault structure was performed to further evaluate the extent of the total petroleum hydrocarbon (TPH) and lead impacts.
- REC 15: Another loading dock was evaluated for the presence of contaminants using a soil boring.
- REC 16: The chemical storage area on the southeast corner of the building was inaccessible to the drill rig due to large, unmovable containers blocking the entrance. A soil boring was performed just outside the entrance to the storage room to evaluate potential sources of contamination.
- REC 17: A visual inspection and soil boring of the tool room was performed to investigate any potential releases.

This report is subject to the Statement of Limitations contained in Appendix A.

2.0 RSR Criteria

The following regulations and associated criteria are presented as they have been used to compare and evaluate the soil and groundwater data obtained during this Phase III ESA.

2.1 Connecticut Remediation Standard Regulations

The Connecticut Remediation Standard Regulations (RSRs) (CTDEP, 1996) include numeric criteria for compounds identified in soil, soil vapor and groundwater. The Phase III ESA completed for this site included the collection and analyses of soil and groundwater samples. During the Phase II ESA, soil, groundwater, and concrete samples were collected and analyzed. These results were compared to the RSR criteria discussed below.

2.1.1 Soil Remediation Criteria

The RSRs contain numerical, default criteria for contaminated soil associated with a release area that are based on both the potential for direct human health impacts from exposure to contaminants (direct exposure criteria) and on the potential for contaminants in the soil to have an adverse impact on groundwater (pollutant mobility criteria). Two sets of direct exposure criteria are specified: one derived for residential land use, and the other derived for industrial and certain commercial land use. Similarly, two sets of pollutant mobility criteria are specified: one for areas with a groundwater classification of GA/GAA, and one for a groundwater classification of GB. Class GA/GAA groundwater is groundwater that is an existing or potential source of potable water and is presumed to be suitable for human consumption without the need for treatment. Class GB groundwater is presumed to have been degraded by past urban or industrial activities and may not be suitable for human consumption without treatment. Additional information on these criteria is presented in the following subsections.

Direct Exposure Criteria

The RSR definition of "residential activity" includes activities related to a residence or dwelling, as well as activities related to schools, hospitals, daycare centers, playgrounds, or outdoor recreation areas. The residential direct exposure criteria (RES DEC) apply in areas with residential activities, but are also the default criteria used to evaluate potential human exposure in all areas. Industrial/commercial direct exposure criteria (I/C DEC) may be applied to areas that do not fit the definition of residential activity, but an Environmental Land Use Restriction (ELUR) must be executed to prevent residential uses of the property. These criteria are for comparison to soil data analyzed on a mass of contaminant to mass of soil basis (typically milligram per kilogram, or mg/kg).

Pollutant Mobility Criteria

The RSRs for organic contaminants include a set of numerical pollutant mobility criteria (PMC) for contaminated soils on a mass/mass basis. Alternatively, organic contaminants can be analyzed using the toxicity characteristic leachate

procedure (TCLP) or synthetic precipitation leachate procedure (SPLP), with the results compared to the groundwater protection criteria (GPC) based upon the mass of the contaminant per liter of leachate, reported in mg/L. For GB aquifer areas, the results are compared to the groundwater protection criteria (GPC) times a factor of 10.

The RSR PMC for inorganic contaminants (metals) are based on TCLP or SPLP analysis of the soil. For GA areas, the PMC equal the GPC, for GB areas, the PMC are 10 times the groundwater protection criteria. However, under certain circumstances specified in the RSRs, the same 10 times factor may be applied in GA areas.

Depending on the groundwater classification, the RSRs include various options such as alternate PMC or the application of dilution factors. If site-specific criteria or dilution factors are proposed, a site-specific demonstration must be made that after dilution with on-site groundwater, the GPC will not be exceeded.

2.1.2 Groundwater Remediation Criteria

The RSRs contain numerical, default criteria for contaminated groundwater associated with a release area that are based on the potential for the groundwater to impact groundwater integrity in the area (groundwater protection criteria), to impact surface water (surface water protection criteria), and to impact human health by volatization into structures (volatization criteria). Two sets of volatization criteria are specified: one derived for residential land use, and the other derived for industrial and certain commercial land use. Similarly, two sets of groundwater protection criteria are specified: one for areas with a groundwater classification of GA/GAA, and one for a groundwater classification of GB. Only one set of groundwater protection criteria is specified.

Groundwater Protection Criteria (GWPC)

GWPC apply to both GA and GB classified groundwater areas under certain conditions. The default criterion for GA classified groundwater is background. However, under certain conditions, GWPC may be used as the remediation criteria. The conditions include, but are not limited to, GA classified areas where a public water supply is located within 200 feet of the site. Furthermore, remediation is not required for compounds detected above background levels but less than applicable GWPC as long as certain conditions are met. For GB areas, GWPC applies if the groundwater is used for drinking or other domestic use.

Surface Water Protection Criteria (SWPC)

If contaminated groundwater discharges to a surface water and interferes with the attainment of surface water quality standards, then groundwater remediation may be required. In addition, if the groundwater discharges to a wetland or an intermittent stream, aquatic life criteria are used to evaluate the need for remediation.

Volatilization Criteria (VC)

The RSRs include volatilization criteria for contaminated groundwater within 15 feet of the ground surface or a building. However, changes to the VC that were proposed in 2003 include applying the VC to a maximum depth of 30 feet below ground surface. The intent of these criteria is to prevent human exposure to vapors from contaminated groundwater. As with the soil criteria, volatilization criteria for both residential (RES VC) and industrial/commercial (I/C VC) uses are specified.

In addition to the criteria discussed above, the RSRs include information on statistical evaluation of sample data, including the use of the 95% upper confidence level data to compare to the RSR criteria; rendering soil that exceeds DEC inaccessible, which requires the institution of environmental land use restrictions; reuse of polluted soil; engineered controls of contaminated media; remediation requirements for LNAPL; development of criteria for substances that are not specified in the RSRs; development of alternative criteria, and other issues.

2.2 Summary of RSR Criteria Applied to the Site

The project evaluation criteria are based on the RSRs and the following site-specific conditions: the site is located in a GB aquifer area and the future use of the site has not been determined, but is anticipated to be industrial/commercial.

Soil Criteria

The soil RSR criteria used to evaluate the obtained data are the RES DEC, I/C DEC and GB PMC. The area is classified as GB for groundwater. Future site use has not been determined, so the data have been compared to both the residential and industrial/commercial direct exposure criteria.

Groundwater Criteria

The groundwater RSR criteria used to evaluate compliance are the SWPC, RES VC, and I/C VC. The area is classified as GB for groundwater. Groundwater is assumed to ultimately discharge to Stillman Pond, which is the nearest named surface water body and is located east-southeast of the site. Future site use has not been determined, so the data have been compared to both the residential and industrial/commercial criteria.

Concrete Criteria

The analytical results for the concrete from the Phase II ESA were compared to the RES DEC and I/C DEC. The TCLP results were compared to disposal criteria to evaluate potential classification of the concrete should it require disposal.

2.3 Proposed Revisions to the Connecticut Remediation Standard Regulations

In the Fall of 2008, the CTDEP publicized proposed revisions to the current CT RSRs. The revisions have altered some of exceedance criteria based on updated toxicology data, analytical capabilities, remediation practicality, and other factors. Some new compounds have also been added to the criteria that were previously unregulated. However, the analytical results obtained during the Phase III Investigation are primarily compared to the current CT RSR criteria. Although the revised criteria are not currently in effect and may not necessarily affect remediation plans for this site, discussion regarding the effect of these revised criteria on the presence of RSR criteria exceedances at the site are discussed in Sections 7 and 8. The revised criteria are shown on the data tables for Phase II (provided as Appendix H) and Phase III (Tables 4 and 5) investigations for informational purposes only. The remediation concepts discussed in this report are based on meeting current RSR standards. However, the remediation concepts may need to be revised if remediation actions at the site are commenced after the proposed revised RSRs become law.

3.0 Site Description and Environmental Conditions

3.1 Site Setting

The site is located at 80 Hastings Street, in the City of Bridgeport, Fairfield County, Connecticut. The site is identified in the City of Bridgeport Tax Assessor's office as Block 2022 Lot 36 and is located between Coggswell and Rockland Streets to the north and south, respectively, and west of Asylum Street. A site location map is provided as Figure 1. The site is in an area of mixed residential and commercial/industrial land uses and consists of approximately 1.25 acres of land.

Figure 2 presents a site plan. The site is zoned I-LI and improved with a 37,312 square foot concrete/cinder block light manufacturing building, 480 square feet of which consists of finished mezzanine level offices and break rooms. Asphalt pavement encompasses approximately 12,000 square feet along the eastern portion of the site. An approximate six foot by eight foot concrete vault filled with asphalt and debris is present on the southern portion of the asphalt parking lot area. The eastern and southern portions of the perimeter of the site consist of a seven-foot high chain link fence and entrance gate along Hastings Street. Electrical transformer housing is present on the northern portion of the asphalt parking lot area.

The site topography gradually slopes from north to south with an approximate elevation of 50 feet National Geodetic Vertical Datum (NGVD), 1929 above mean sea level (see Figure 1). The 100-year flood plain boundary in Bridgeport along the coast is 10 feet NGVD. Therefore, the site does not lie within the 100-year flood plain.

3.2 Surrounding Properties

Properties nearby 80 Hastings Street have various site uses. The site is bordered on the northwest by residential properties and on the north-northeast by two buildings occupied by Emtec Metal Products, American Machinery, and Vitramon, located at 200 Cogswell Street and 315 Asylum Street. An approximate 4,000 square foot storage building is located just north of the site at 305 Asylum Street. North of Cogswell Street is Unger Quality Tools, manufacturer of cleaning tools.

The site is bound to the east by City Park, east of Asylum Street. Lakeview Cemetery is located east of Asylum Street. A small industrial complex is located to the south-southeast of the site, located at 231-265 Asylum Street. The complex consists of following businesses: The Griffith Company, warehouse distributors, Lake Grinding, TNL, LLC, Centro Company, and Turnpike Furnace Company. A parking area for the industrial complex is located to the southwest, and a residential neighborhood is located to the west.

3.3 Previous Investigations

3.3.1 Phase I ESA and EPA Removal Action

M&E conducted a Phase I Environmental Site Assessment for the property in July 2008 (M&E, 2008). M&E's Phase I Report (M&E, July 2008) provides information regarding historical site uses and recognized environmental conditions (RECs). The RECs are discussed in the next section. Past site uses identified at the site using historical topographic maps, historical aerial photographs and Sanborn mapping are vacant land from 1893 to 1972 and industrial from 1972 to the present. The industrial use has been a metal plating shop from 1972 until approximately 2000 when the current operations ceased.

An Environmental Protection Agency ("EPA") emergency removal program was conducted at the site in 2002. Removal actions began on January 14, 2002 and were completed on August 6, 2002. Interim removal actions were summarized in two USEPA Pollution Reports (POLREPs), dated February 1, 2002 and March 15, 2002. All removal activities were summarized in a report entitled Removal Program After Action Report, dated September 2002, prepared by Weston Solutions, Inc. (Weston) for the a USEPA. Additional details regarding these EPA removal actions are provided in the M&E Phase I ESA report (July, 2008).

3.3.2 Phase II ESA

Eighteen RECs were identified at the site as part of the Phase I ESA and development of the Quality Assurance Project Plan (QAPP) for the Phase II ESA (M&E, August 2008). These RECs, as well as their associated Phase II ESA assessment activities, are summarized (by number) as follows and depicted on Figure 2:

- 1. Soil Subsurface soils due to cyanide and/or other metals and petroleum contamination from historic metal plating operations, spills, and/or seepage from floor drains or compromised sub-grade structures. Specific items potentially contributing to this REC include floor drains, utility trenches, sumps, depressions, compromised floor areas (if present), specific plating/industrial operations, cleaning areas, boiler room, laboratory, etc. Potential contaminants of concern associated with this REC include petroleum, cyanide, cadmium, nickel, zinc, and other metals. This REC was evaluated for volatile organics compounds (VOCs), cyanide, extractable total petroleum hydrocarbons (ETPH), and CT RSR 15 metals. In addition, select soil samples were analyzed for pollutant mobility issues related to cyanide and metals using the synthetic precipitation leaching procedure (SPLP) extraction.
- 2. Urban Fill Historic fill may be potentially present. Potential contaminants of concern associated with this REC include metals and polycyclic aromatic hydrocarbons. This REC was evaluated for polycyclic aromatic hydrocarbons (PAHs) and CT RSR 15 metals. In addition, select soil samples were analyzed for pollutant mobility issues related to PAHs and metals using the synthetic precipitation leaching procedure (SPLP) extraction.

- Site-Wide Groundwater Cyanide and/or other metals and petroleum contamination from historic metal plating operations, spills, and/or seepage from floor drains or compromised sub-grade structures. Potential contaminants of concern associated with this REC include volatile organic compounds, petroleum, cyanide, and metals. This REC was evaluated for VOCs, cyanide, and CT RSR 15 Metals.
- 4. Off-Site Groundwater Potential contamination in off-site groundwater from neighboring industrial/commercial properties that flows onto this property. Potential contaminants of concern associated with this REC include volatile organic compounds, petroleum, cyanide, and metals. REC 4 is potential off-site groundwater impacts to the 80 Hastings site. REC 4 was not directly assessed during the Phase II ESA.
- Residual petroleum Possible hydraulic oil in lifts in loading docks and observed oil spills in the building. Potential contaminants of concern associated with this REC include petroleum. REC 5 was not evaluated directly during the Phase II ESA.
- 6. Residual chemicals Solids cyanide and/or other metals, precipitates and filter cake on the main production floor. Liquids acidic and/or basic solutions and metals solutions in the floor trenches. Desiccated sludge in the sludge holding tank. Additional residual chemicals may be present in equipment remaining on site, and in the laboratory. Potential contaminants of concern associated with this REC include volatile organic compounds, petroleum, cyanide, and metals. REC 6 was not evaluated directly during the Phase II ESA.
- 7. PCBs Possible PCBs related to hydraulic lifts, the former transformers, and light ballasts in the southern storage room and eastern office areas. REC 7 was not evaluated directly during the Phase II ESA.
- 8. Lead-Based Paint (LBP) Potential LBP observed on steel beams and in boiler room, due to age of facility. REC 8 was evaluated using XRF field screening techniques.
- Asbestos-Containing Materials (ACM) Potential asbestos in the ovens on site, in the boiler room, and in floor and ceiling tiles in the laboratory and offices. REC 9 was evaluated using field observations and PLM.
- 10. Freon Freon remaining in window air conditioner units in the office area. REC 10 was not evaluated during this work.
- 11. Mold Mold may be present on the building interior since the interior of the building is exposed to the elements. REC 11 was not evaluated during the Phase II ESA.
- 12. Vault structure Potential soil and/or groundwater contamination in the vicinity of the unknown concrete vault structure located in the southern portion of the parking lot. Potential contaminants of concern associated with this REC include volatile organic compounds, petroleum, and metals. This REC was evaluated for VOCs, CT extractable total petroleum hydrocarbons (CT ETPH) and metals.

- 13. Fire Damage Smoke staining, potentially containing PAHs, is present on the building interior from the January 2008 fire at the site. REC 13 was not evaluated during the Phase II ESA.
- 14. Impacted Concrete Concrete floor slabs may be contaminated due to historic spills. Potential contaminants of concern associated with this REC include metals. This REC was evaluated using total PP 13 metals and TCLP RCRA 8 metals.
- 15. Loading Docks Loading dock areas may represent potential sources of contamination due to historic spills or leakage. Potential contaminants of concern associated with this REC include volatile organic compounds, petroleum, and metals. This REC was evaluated for VOCs, CT ETPH, and CT RSR 15 metals.
- 16. Chemical Storage Areas Chemical storage areas may represent potential sources of contamination due to historic spills or leakage. Potential contaminants of concern associated with this REC include volatile organic compounds, petroleum, cyanide, and metals. Only one chemical storage area, the one associated with cyanide storage, was evaluated during the Phase II ESA.
- 17. Tool Room Chemicals may have been used and/or stored in the tool room. Potential contaminants of concern associated with this REC include volatile organic compounds, petroleum, and metals. This REC was not evaluated as part of the Phase II ESA.
- 18. Subsurface Drainage Structures Subsurface drainage structures, some potentially related to the municipal sanitary sewer system, may be present and may contain residual contamination. Potential contaminants of concern associated with this REC include volatile organic compounds, petroleum, cyanide, and metals. REC 18 was not directly evaluated as part of the Phase II ESA but may need to be evaluated in the future.

M&E subsequently conducted a Limited Phase II Environmental Site Assessment for the property in September, 2008. The Phase II ESA focused on the RECs believed to have the greatest impact to the environmental status of the site. The results of the investigation were provided in M&E's Phase II Report (M&E, October 2008) and are summarized below and in Figure 2. RECs 1, 2, 3, 8, 9, 12, 14, 15, and 16 were investigated as part of the Phase II ESA:

- Subsurface Soils Soils under the building slab were found to contain arsenic, cadmium, chromium, thallium above RES DEC and arsenic and chromium, and nickel above I/C DEC.
- 2. Urban Fill Arsenic was detected in soil borings taken in the parking lot area at concentrations near or exceeding the RES DEC.
- 3. Site-Wide Groundwater Groundwater was found to exceed SWPC for cyanide, arsenic, cadmium, chromium, copper, lead, and zinc.

- 8. Lead-Based Paint (LBP) Several surfaces in the building were identified as containing lead including interior window casing, concrete walls and brick walls in Section #3 of the building (Shown in Appendix F).
- 9. Asbestos-Containing Materials (ACM) Several different types of asbestos-containing materials are present in the building at several locations. The total estimated quantity of asbestos containing materials could potentially be refined based on the additional sampling.
- 12. Vault structure A soil boring near the vault showed RES DEC exceedances for ETPH and Lead and an I/C DEC exceedance for lead.
- 14. Impacted Concrete Concrete chip samples from concrete floor slabs were found to contain arsenic, cadmiuim, copper, lead, hexavalent chromium and nickel in excess of RES DEC and arsenic, nickel, and hexavlent chromium in excess of I/C DEC.
- 15. Loading Docks A soil boring in the loading dock area showed a RES DEC exceedance for arsenic potentially due to historic fill or historic spills or leakage. ETPH was detected but not in excess of RSR criteria. No evidence of a significant or continuing release was found.
- 16. Chemical Storage Areas .A soil boring near the cyanide storage area located on the north side of the building showed the presence of cyanide in the soil however the concentration was below RSR criteria.

3.4 Site Surface Drainage

Based on topography, surface runoff on-site appears to flow to the south-southwest toward Stillman Pond, located approximately 3,000 feet from the site. Storm water is collected by roof drains on the building and released along the perimeter of the building. No catch basins were observed on-site; however, Asylum Street is serviced by the municipal storm water sewer system.

3.5 Site Utilities

Based on the Phase I Report (M&E, July 2008), there are no active municipal sanitary sewer, municipal water, electrical and gas utilities currently servicing the site. During historic site operations, the site was serviced by these utilities. Public utilities service the adjacent properties surrounding the site.

3.6 Water Supply Wells

Based on the Phase I Report (M&E, July 2008), there are no water supply wells on the site, and there are no public water supply wells in use within one mile of the site.

3.7 Surface Water

According to the Water Quality Classification Map (CTDEP, 1997), the site is located in the Housatonic River, Hudson River, and Southwest Coastal Basin of Connecticut. Stillman Pond is the nearest named surface water body, located to the east-southeast of the site. Stillman Pond is classified as a class C/B surface water. A class C/B designation indicates inland surface waters of an unacceptable quality, with the goal being Class B. Class B surface waters are designated for recreational use, fish and wildlife habitat, agricultural and industrial supply, and other uses including navigation.

Stillman Pond flows south to the Yellow Mill Channel (Bridgeport Harbor) and eventually to Long Island Sound. The Yellow Mill Channel and Bridgeport Harbor are classified as SC/SB surface waters. A class SC/SB designation indicates that the saline waters have been impacted by point or non-point sources of pollution, and certain criteria or one of more designated uses assigned to Class SB surface waters may not be currently met. The water quality goal is achievement of Class SB criteria and attainment of Class SB designated uses.

3.8 Groundwater

The CTDEP classification for the groundwater in the vicinity of the site is GB, which is defined as groundwater that is presently known or presumed to be degraded due to historical land use practices and is not suitable for human consumption without prior treatment (Water Quality Classifications Map for Housatonic River, Hudson River, and Southwest Coastal Basins, CTDEP, 1997).

The flow direction is not exactly known, but is assumed to be to the south-southeast, toward Stillman Pond. Groundwater does not appear to be much shallower than the natural bedrock surface directly beneath the site. Bedrock and groundwater elevations are shown on Figure 4, and the relationship between bedrock and groundwater at the site is discussed later in this report.

3.9 Surficial and Bedrock Geology

The surficial soils underlying the site are mapped as stacked coarse sand deposits overlying fines (*Surficial Materials Map of Connecticut*, Stone et al., 1992). The potential exists for the near surface soils to consist of urban fill materials overlying native deposits. The fill material may vary in composition, but may have been historically placed to level land for development in the area. Urban fill material typically consists of sand and gravel, as well as ash/cinders, glass, plastic, brick, concrete, and wood.

According to the historical topographic maps provided in Appendix F, the elevation of the site appears to have been approximately 50 feet above mean sea level since 1893.

According to the USGS Bedrock Geologic Map of the Long Hill and Bridgeport Quadrangle, Connecticut (Crowley, 1968), bedrock in the vicinity of the site is classified as a schist and gneiss associated with the Derby Hill Member on the Orange formation. During the site walk, bedrock outcropping was observed along Cogswell Street.

4.0 Phase III Investigation Activities

The Phase III investigated the following recognized environmental conditions (RECs):

- REC 2: Soils within the parking lot area were further evaluated for the extent of contamination and potential remediation options.
- REC 3: On-site groundwater was further evaluated for the potential of metals and petroleum contamination from historic metal plating operations and/or seepage from floor drains and compromised sub-grade structures.
- REC 7: The area of the former transformers was evaluated for possible polychlorinated biphenyl (PCB) contamination.
- REC 8: Toxicity characteristic leachate procedure (TCLP) analysis of potential lead-based paint materials was conducted.
- REC 9: Additional sampling of analysis of potential asbestos-containing materials will be performed.
- REC 12: Additional characterization of the vault structure was performed to further evaluate the extent of the total petroleum hydrocarbon (TPH) and lead impacts.
- REC 15: Another loading dock was evaluated for the presence of contaminants using a soil boring.
- REC 16: The chemical storage area on the southeast corner of the building was inaccessible to the drill rig due to large, unmovable containers blocking the entrance. A soil boring was performed just outside the entrance to the storage room to evaluate potential sources of contamination.
- REC 17: A visual inspection and soil boring of the tool room was performed to investigate any potential releases.

4.1 Pre-Field Work

Prior to the commencement of invasive activities at the site, Call-Before-You-Dig (CBYD), a public utility locating service, was contacted to minimize interruption of buried utilities. All work was conducted in Modified Level D personal protective equipment.

Four contractors were procured for field and laboratory services: Glacier Drilling, LLC of Durham, CT (soil boring and monitoring well installation services); Hygenix of Stamford, CT (ACM and LBP testing); Con-Test Analytical Laboratory, of East Longmeadow, MA (analytical laboratory services), and Nafis and Young Engineers, of Northford, CT (surveying services).

4.2 Soil Borings

Twenty-nine (29) soil borings were conducted at the site on December 22 and 23, 2008. The borings were drilled to depths ranging between 1.5 to 9.0 feet below grade. Locations are shown on Figure 2. Boring depths, refusal depths and bedrock elevations are presented in Table 2. Shallow bedrock, from approximately 1.5 to 9.0 feet below grade, was encountered (based on refusal of Geoprobe borings) in twenty-seven (27) of the twenty-eight (28) borings. Moist soils were encountered in several borings, but the

water table was only encountered at two borings: approximately six (6) feet below grade in boring SB-23 and approximately two and one half (2.5) feet below grade in boring SB-10/MW-2. Soils consisted primarily of tan-brown to green-brown sands, silt, gravel, and fragments of weathered bedrock. Layers of ash, cinders, and brick and plastic fragments were present in several soil borings. Soil boring logs are located in Appendix B.

The soil borings were installed using a Geoprobe 54LT track mounted rig. Sample cores were collected using clean, disposable acetate liners and retrieved in 4-foot intervals. Each core was logged by the field engineer and field screened using a PID. Dedicated disposable sampling trowels were used to collect samples. All samples were grab samples. Sampling intervals were recorded on the boring logs. VOCs samples were collected in accordance with EPA Methods 5035 and 8260b.

Up to two sample aliquots were collected from each soil boring. One (1) aliquot was collected from a surficial interval for compositing within that soil boring, the other typically from an interval spanning the water table or an additional interval based on field judgment. Select soil samples were preserved with ice and submitted to ConTest for analysis of one (1) or more of the following parameters:

- Volatile Organic Compounds (VOCs) by EPA Method 5035/8260b;
- Extractable Total Petroleum Hydrocarbons (ETPH) by CTETPH Method;
- PP13 Metals by EPA Method 6020/7471 and SPLP Metals by EPA Method 1312/6020/7471;
- Hexavalent chromium by EPA Method 3060a;
- Arsenic by 7061a;
- Lead by EPA Method 7010; and
- PCBs by EPA Method 8082.

SPLP and hexavalent chromium analysis was performed on soil samples based on the results of the total concentration analysis. A summary of the number of soil and groundwater samples collected and the sample parameters analyzed is presented in Table 1.

Excess soil cuttings were placed back into the open boreholes. The soil borings were then backfilled with clean sand, if necessary, and completed to existing grade with asphalt, with the exception of SB-10 through 13 which were completed as groundwater monitoring wells.

4.3 Monitoring Well Installation and Well Development

Four (4) monitoring wells (MW-2 through 5) were installed on December 22 and 23, 2008 at soil boring locations SB-10 through 13 respectively. Well construction details are tabulated in Table 3 and detailed in Appendix C. Wells were constructed of 1-inch diameter PVC with 0.010-inch slotted screen. Wells were completed with a flush-mounted roadbox set into the concrete floor (MW-3 and -5), asphalt sidewalk (MW-2) or asphalt parking lot (MW-4). The wells could not be developed due to low water table and poor recharge at the time of installation. The bottoms of the wells were set directly on the bedrock surface (refusal).

4.4 Groundwater Measurement and Sampling

Groundwater sampling was conducted on January 6, 2008. Water table elevations are presented in Table 3. Groundwater was not present at MW-5, and MW-2 through -4 did not yield enough water to sample by low-flow or grab sampling methods. MW-1 was the only well able to be sampled. EPA low-flow groundwater sampling procedures were followed and a peristaltic pump was used to collect the groundwater sample. The discharge from the pump was routed through a YSI 600 water-quality meter that measured dissolved oxygen, pH, temperature, ORP, and specific conductivity. The discharge was also analyzed for turbidity using a Lamont Turbidity Meter. These parameters were recorded on the groundwater sampling log located in Appendix D. The groundwater was sampled after the parameters stabilized in accordance with EPA low-flow protocol. The samples were preserved with ice, as well as hydrochloric acid (VOCs), nitric acid (metals), and sodium hydroxide (cyanide), and one or more samples were submitted to ConTest for the following analyses:

- VOCs by EPA Method 8260b;
- PP13 Metals by EPA Method 6020/7471 (arsenic by graphite furnace);
- Cyanide by EPA Method 9010/335.2;
- Hexavalent Chromium by EPA Method 3060a; and
- ETPH by CTETPH.

4.5 ACM and LBP Measurement and Sampling

An ACM and LBP survey and testing program was conducted at the site on December 23, 2008 by Hygenix of Stamford, CT. A similar investigation was conducted on September 9, 2008 by Hygenix. The purpose of this investigation was to further assess the quantities of ACM and LBP that may require special handling and disposal. Potential ACM were evaluated by Hygenix personnel utilizing field observations and in an off-site laboratory using polarized light microscopy (PLM). A total of 79 samples of potential ACM were collected and analyzed using PLM. Potential ACMs were also identified and quantified.

Pre-demolition LBP sampling was performed on different building materials on the three sections of the building that may be disturbed during demolition activities. Painted materials that may be disposed of during demolition were sampled for soluble lead (TCLP test) to determine if they could be disposed of as general waste. The samples collected were delivered to Schneider Laboratories and were analyzed by EPA SW846 Method 1311 (TCLP) with lead analysis by EPA 7420 method.

The results of the ACM and LBP survey and testing are presented in the Hygenix reports attached as Appendices E and F, respectively, and discussed in Section 5.3.

4.6 PCB Wipe Sample

The area of the former transformers (REC 7) was evaluated for possible PCB contamination. A PCB wipe sample was taken from the surface of the transformer pad.

No stained areas were found on the surface area.	This PCB sample and a duplicate
sample were submitted for analysis.	

5.0 Sampling Analytical Results

Laboratory analytical reports for the soil and groundwater samples are located in Appendix G. The analytical results were evaluated with respect to the RSR criteria. Soil sample analytical results are summarized in Table 4. Groundwater sample analytical results are summarized in Table 5. Data validation qualifiers for both soil and groundwater samples are provided in Table 6. Data validation methods are discussed in Section 6.0.

5.1 Soil Analytical Results

Exceedances of the current RSRs for soil samples, including samples conducted during the Phase II investigation, are shown on Figure 3. Exceedances of the existing RSRs for only Phase III borings are as follows:

Arsenic. Twenty-eight (28) soil samples from twenty-three (23) soil borings were collected and analyzed for arsenic. Arsenic was detected in several samples. Two samples, SB-28, collected at a depth of 6-15 inches, and SB-16 DUP, collected at a depth of 6-20 inches, resulted in arsenic concentrations of 16.8 mg/kg and 10.2 mg/kg, respectively, above the RES DEC and I/C DEC of 10 mg/kg.

SPLP Arsenic. Three (3) soil samples from three (3) soil borings were collected and analyzed for SPLP arsenic. Arsenic was not detected in any of the samples.

Hexavalent Chromium. Two (2) soil samples from one (1) soil boring were collected and analyzed for hexavalent chromium. Hexavalent chromium was detected in both samples, but below the RES DEC and I/C DEC of 100 mg/kg.

Lead. Three (3) soil samples from two (2) soil borings were collected and analyzed for lead. Lead was detected in all three samples, but only the sample from SB-32 resulted in a lead concentration of 887 mg/kg above the RES DEC of 400 mg/kg.

SPLP Lead. Two (2) soil samples from two (2) soil borings were collected and analyzed for SPLP lead. One sample, SB-32, resulted in a concentration of 0.16 mg/L, above the existing RSR GB PMC criteria of 0.15 mg/L.

VOCs. Three (3) soil samples from two (2) soil borings were collected and analyzed for VOCs. Several VOCs were detected in SB-13 and SB-13 DUP, but not exceeding the RES DEC, I/C DEC, or GM PMC.

ETPH. Five (5) soil samples from four (4) soil borings were analyzed for ETPH. ETPH was detected in all of the samples, but only SB-32 and SB-32 DUP, collected at a depth of 12-32 inches, resulted in an ETPH concentration of 850 mg/kg and 740 mg/kg, respectively, above the RES DEC of 500 mg/kg. No samples exceeded the I/C DEC or GB PMC of 2,500 mg/kg.

CTRSR 13 Metals. Two (2) soil samples from one (1) soil boring (SB-16) were analyzed for CTDEP 13 metals. A summary of the results is as follows:

 Cadmium, nickel, beryllium, chromium, copper, mercury and zinc were detected in both samples below RSR criteria. Antimony, selenium, silver and thallium were not detected in either sample.

CTRSR SPLP 13 Metals. One (1) soil sample (SB-16 DUP) was analyzed for CTDEP SPLP 13 metals. Zinc was detected in this sample below RSR criteria. No other SPLP metals were detected in this sample.

PCBs. Three (3) soil samples from two (2) soil borings were analyzed for PCBs. PCB-1254 was detected in SB-15 below the RSR criteria. No other PCBs were detected in the samples. A PCB wipe sample and duplicate were also taken from the surface of the transformer pad and submitted for analysis. No PCBs were detected in either wipe sample.

5.1.1 Soil Sample Exceedances Due to Revisions to RSRs

Exceedances of the proposed revisions to the RSRs for soil samples, including samples conducted during the Phase II investigation, are provided in Table 7. Changes to the exceedances of the proposed revisions to the RSRs for only Phase III borings are as follows:

- The arsenic and ETPH standards were not changed in the proposed revisions to the RSRs, therefore exceedances to these standards would likewise remain unchanged.
- While the mass standard for lead did not change in the proposed revisions, the GB PMC standard was raised from 0.15 mg/L to 120 mg/L. Therefore, sample SB-32 would no longer exceed the GB PMC under the proposed revisions. The cadmium RES DEC standard was lowered from 34 mg/kg to 1.4 mg/kg in the proposed revisions to the RSRs; therefore, cadmium was detected in two samples at concentrations exceeding the revised RES DEC: SB-16 (6-20 inches) at 5.38 mg/kg and SB-16 DUP (6-20 inches) at 8.05 mg/kg.
- Similarly, the nickel RES DEC standard was lowered from 1,400 mg/kg to 45 mg/kg in the proposed revisions; therefore, nickel was detected in the two samples at concentrations exceeding the revised RES DEC: SB-16 at 64.3 mg/kg and SB-16 DUP at 76.7 mg/kg.
- Neither cadmium nor nickel exceeded the existing RES DEC.

5.2 Groundwater Analytical Results

Exceedances of the existing RSRs for groundwater samples are shown on Figure 4 and as follows:

VOCs. Two (2) groundwater samples from one (1) monitoring well were collected and analyzed for VOCs. Chloroform and trichloroethylene were detected in both samples below RSR criteria. No other VOCs were detected in either sample. The laboratory detection limit 1,2-Dibromoethane exceeded the existing RSR RES VC.

Metals. Two (2) groundwater samples from one (1) monitoring well were collected and analyzed for CTDEP 13 metals. A summary of the results is as follows:

- Cadmium was detected in both samples at concentrations exceeding the SWPC of 6 μg/L : MW-1 at 836 μg/L and MW-1 DUP at 831 μg/L.
- Copper was detected in both samples at concentrations exceeding the SWPC of 48 μg/L: MW-1 at 404 μg/L and MW-1 DUP at 430 μg/L.
- Lead was detected in both samples at concentrations exceeding the SWPC of 13 μg/L: MW-1 at 65.9 μg/L and MW-1 DUP at 78.2 μg/L.
- Nickel was detected in both samples but did not exceed the existing SWPC of 880 µg/L.
- Zinc was detected in both samples at concentrations exceeding the SWPC of 123 μg/L: MW-1 at 1780 μg/L and MW-1 DUP at 1870 μg/L.
- Antimony, arsenic, total chromium, hexavalent chromium, and mercury were detected in both samples below the SWPC. No other metals were detected in either sample.

Cyanide. Two (2) groundwater samples from one (1) monitoring well were collected and analyzed for total cyanide. Total cyanide was detected in both samples at concentrations exceeding the SWPC (0.052 mg/L): MW-1 at 0.197 mg/L and MW-1 DUP at 0.214 mg/L.

ETPH. Two (2) groundwater samples from one (1) monitoring well were collected and analyzed for ETPH. ETPH was detected in both samples, however, no standard for ETPH exists for both the existing and revised I/C VC, RES VC, and SWPC.

5.2.1 Groundwater Sample Exceedances Due to Revisions to RSRs

Exceedances of the proposed revisions to the RSRs for groundwater samples are provided in Table 7 and as follows:

- The SWPC standards for cadmium, copper, lead, and zinc were all lowered in the proposed revisions to the RSRs. Therefore, exceedances to these standards would remain in effect.
- The SWPC standard for nickel was lowered from 880 μg/L to 290 μg/L; therefore, nickel was detected in MW-1 and MW-1 DUP at a concentration of 411 μg/L and 405 μg/L, respectively, above the revised SWPC.
- The SWPC for total cyanide was not changed in the revisions to the RSRs, therefore both samples are still in exceedance of the SWPC.
- No standard for ETPH exists for the revised I/C VC, RES VC, and SWPC.

5.3 Asbestos Sampling and Screening Results

Additional asbestos sampling and survey activities were conducted in December 2008 to further assess the quantities of asbestos-containing building materials that may require special handling and disposal. A visual site inspection was conducted and 79 samples were collected and analyzed for asbestos by PLM (55 were analyzed during the September 2008 inspection). The results of the asbestos sampling and survey activities

are provided in the report included as Appendix E. This report is comprehensive and includes both the September and December investigations. The locations of asbestos containing materials are provided in the report. The following inventories are provided in the report:

- asbestos containing materials both confirmed by sampling and suspected without sampling results; and
- non-asbestos containing materials confirmed by sampling

No additional asbestos containing materials were identified during the December 2008 investigation. The following quantities of asbestos containing materials were estimated during the inspection:

- Sink insulation from 6 sinks;
- 850 square feet of double layered 9x9 floor tiles;
- 1000 square feet roof flashing/ cement
- 450 square feet roll-out roofing
- 1800 square feet roof field
- Unknown quantity of tar coated wood roofing debris;
- 4 fire doors;
- 3000 square feet and 100 linear pipe insulation;
- 20 steam line compression gaskets;
- An unknown quantity of sheet rock and joint compound from interior walls and ceilings;
- 504 square feet from first floor offices and an unknown quantity from second floor offices of floor tiles;
- Additional 610 square feet of 12x12 gray and white floor tile;
- 900 square feet of gaskets and insulation from kilns and red kilns;
- 3000 square feet of building debris from the fire damaged section of the building
- An unknown quantity of Styrofoam with Black Mastic loose in bins.

5.4 Lead-Paint Screening Results

Additional lead sampling and survey activities were conducted in December 2008 to further assess the quantities of lead-based paint that may require special handling and disposal. In addition, locations with lead-based paint discovered during the September 2008 screening, as well as two new locations discovered during the December 2008 screening, were sampled and analyzed by EPA SW486 Method 1311 (TCLP) with lead analysis by EPA 7420 method. The results of the lead-paint screening activities are provided in the report included as Appendix F. The TCLP results of the lead analysis were as follows:

- Section #3 interior brick wall: <0.2 mg/L
- Section #3 interior block wall: 0.6 mg/L
- Section #3 interior wood: 1.4 mg/L
- Section #1 and #2 outer block wall: 2.0 mg/L
- Section #3 outer block walls: 0.2 mg/L

The last two locations were discovered during the December 2008 screening. As the EPA standard for lead is 5 mg/L, the results of the analysis show that all of the materials

sampled are below regulatory limits. Therefore, these materials can be disposed of as demolition debris.

5.5 Visual Inspection Observations

There is a sinkhole on the west side of the parking lot (REC 2), south of the gate, and north of the sewer manhole. The location was surveyed and is shown on Figure 2. There is only an eight inch hole in the asphalt, however, underground the sinkhole appears to be generally circular and has approximately a six foot diameter and a depth of approximately two feet.

Nearly all the interior walls in the southern portion of the building and in the Plating Area portion of the building show visible signs of smoke damage (REC 13).

The chemical storage room (REC 16) on the eastern side of the southern portion of the building near SB-13/MW-5 was visually inspected for potential environmental impacts. No significant staining or cracks were observed, however, much of the floor was covered with ice at the time of the site assessment.

The chemical storage area (REC 16) on the western side of the southern portion of the building was also inspected. No apparent cracks or stains were found, however, the floor was largely covered with debris. Empty or partially empty bottles of a biodegradable cleaner/degreaser were found suggesting the area may have been use to store cleaning supplies.

The tool room (REC 17) was visually inspected. No apparent cracks or stains were observed.

Visual inspection of the hydraulic lifts (REC 7) and loading dock area (REC 15) revealed no cracks or stains on the interior floor near the lifts. The southernmost lift alone showed signs of potential petroleum staining on the exterior of the lift and concrete. No staining was found on the exteriors of the other lifts.

5.6 Statistical Analysis of Select Remediation Results

All soil sampling results obtained during the Phase II site assessment activities are summarized in Appendix G; all results obtained during the Phase III site assessment activities are summarized in Table 4 and Table 5.

The 95% UCL for mass concentrations of arsenic in the parking lot was calculated in accordance with the CTDEP's draft guidance document (October 5, 2000) to evaluate compliance with the RES DEC and I/C DEC. The parking lot (REC 2) is potentially underlain with historic fill. Arsenic was detected above RES DEC and I/C DEC in three of the 25 soil borings conducted in the parking lot (one boring from the Phase II investigation and two borings from the Phase III investigation). The concentrations of arsenic above the DEC in these three soil borings was less than two times the DEC, a requirement of the 95% UCL calculation.

Lead was detected at a concentration more than two times the RES DEC in the parking lot and therefore is not applicable to the 95% UCL calculation. There is also an insufficient number of lead sample results to qualify for the 95% UCL calculation.

ProUCL, a data evaluation program distributed by the EPA, was utilized to calculate the 95% UCL. This program calculates the 95% UCL for normal, gamma, and lognormal distributions. Data is entered into a spreadsheet and the program runs the statistical tests. The program then recommends the appropriate distribution type. The final calculation outputs of the program are included in Appendix I.

5.6.1 Arsenic

A 95% UCL evaluation was required to comply with the RES DEC and I/C DEC criteria. Samples SB-2 (1-2 feet), SB-16 (6-20 inches) and SB-28 (6-15 inches) exceeded both exposure criteria but was less than two times the DEC standard. Sample SB-2 was conducted in the Phase II investigation, while samples SB-16 and SB-28 were conducted in the Phase III investigation. A total of 25 samples were analyzed and included in the calculation. Samples with non-detect concentrations of arsenic were input into the calculation with half of the value of the detection limit, per the guidance document's instructions. In addition, the higher value of duplicate samples was used where appropriate, to yield conservative results.

The 95% UCL calculation yielded an arithmetic mean arsenic result of 8.6 mg/kg, which is below both the RES DEC and I/C DEC of 10 mg/kg.

6.0 Data QA/QC

6.1 QA/QC Samples

QA/QC samples were collected as part of the investigation to allow for the evaluation of the precision, accuracy, and usability of data collected during the field effort. Details regarding the QA/QC measures are located in the Quality Assurance Project Plan (QAPP) Addendum for Phase III Environmental Site Assessment Progressive Plating Technologies, aka: Automatic Plating, 80 Hastings Street, Bridgeport, Connecticut (M&E, December 2008). The QAPP was approved by EPA prior to initiation of sampling activities.

6.1.1 Field Quality Control Samples

Quality control samples that were collected in the field and submitted to the laboratory along with the environmental samples are discussed in this section. The types of QC samples that were collected included the following: trip blanks, equipment blanks, and field duplicates. Method blanks and matrix spike/matrix spike duplicates (MS/MSDs) were analyzed by the laboratory on approximately one (1) per 20 batches for internal QA/QC purposes. A total of four (4) sample batches were submitted to the laboratory. Batch #22296 and #22297 consisted of soil samples, PCB wipes, and an equipment blank from the December 22 and 23 field sampling event. Batch #22446 consisted of groundwater samples and an equipment blank from the January 6, 2009 sampling event. Batch # 22297 consisted of a reactivation of soil samples for additional analysis.

Trip Blanks

A trip blank was submitted with batch #22446. The analysis of this blank provided a baseline measurement of any VOC contamination that the samples may have been exposed to during transport. Each trip blank, was comprised of a sample container filled with high performance liquid chromatography organic-free water, preserved, handled like a sample, and sent to the laboratory for analysis.

Equipment Blanks

An equipment blank was collected and submitted with batch #22446 and #22297. The analysis of these blanks serves to verify the cleanliness of the sampling equipment. An equipment blank is collected by rinsing decontaminated field equipment with deionized water, transferring the water to a sample container, and sending the sample for analysis. The equipment blanks were analyzed for the same parameters as the samples collected with that equipment.

Field Duplicates

Field duplicates were collected for select samples in sample batches 22446, 22477 22296, and 22297. Each duplicate was two (2) samples collected independently from one (1) sampling location during a single episode (within a reasonable timeframe) of sampling using the sample collection procedures that were used to obtain the original sample. Duplicates provide information about sample variability.

Matrix Spike/Matrix Spike Duplicates

Matrix spike and matrix spike duplicates (MS/MSDs) are a QC requirement performed by the laboratory. No additional soil or groundwater volumes were provided to the laboratory for any of the batch samples.

Documentation and Review of Quality Control Activities

Field QC samples were packed and delivered along with their corresponding environmental samples, and were noted on the chain of custody.

6.1.2 Laboratory Quality Control Requirements

Laboratory control samples were analyzed as necessary by the laboratory. Details on these can be found in the QAPP and in the laboratory analytical reports in Appendix G.

6.2 Data Validation and Usability / Analytical Precision and Accuracy

Data validation consisted of evaluating the following items:

- Sample Holding Times
- Field, trip and laboratory blanks
- Field duplicate results
- Laboratory duplicate results
- Matrix spike/matrix spike duplicate results
- Laboratory control spike recoveries (metals only)
- Surrogate spike recoveries (organics only)

No data was rejected, but some detections and detection limits were qualified. The following is a description of how data was qualified (flagged) for each QC parameter when control limits are not met for sample data:

- **Holding Times:** If the holding time was exceeded, all positive results were flagged as estimated (J) and all non-detects will be flagged as estimated (UJ).
- Calibration: If the continuing calibration criteria are exceeded, all positive results were flagged as estimated (J) and all nondetects were flagged as estimated (UJ) if the bias was low.
- Blanks: When blank contaminants were detected, an action level of 5 times the
 blank contaminant concentration was set for the analytes, providing the analytes
 were not common laboratory contaminants. If the sample analyte concentration was
 greater than the action level, the concentration was reported unqualified. If the
 sample analyte concentration was less than the action level, the concentration was
 reported and flagged to be the qualified detection limit (U).
- Sample Duplicate: If laboratory or field duplicate analyses resulted in a relative percent difference (RPD) greater than 30% (aqueous) or 50% (soil), all positive results were flagged as estimated (J) and all nondetects were reported unqualified.
 If one value was nondetect and the other as above the detection limit, all positive

results were flagged as estimated (J) and all nondetects were flagged as estimated (UJ).

• Matrix Spike/Matrix Spike Duplicates: If the final results of the matrix spike were greater than the acceptable recovery range, all positive results were flagged as estimated (J) and all nondetects were reported unqualified. If the final results of the matrix spike were less than the acceptable range, all positive results were flagged as estimated (J) and all nondetects were flagged as estimated (UJ).

6.3 Data Usability Evaluation

A summary of data qualifications is provided on Table 6 and qualification flags are shown on Tables 4 and 5. Although some analytical results were qualified due to issues such as matrix spike recovery being out of control limits, detections in method and field blanks and in field duplicates, none of the data qualifications render the data unusable.

7.0 Conceptual Site Model

A Conceptual Site Model (CSM) has been developed for the site. The objective of the CSM is to provide a representation of the nature and extent of contamination in soil and groundwater at the site that can be utilized to develop plans subsequent to environmental investigation for remediation. Table 8 presents a summary of the recognized environmental conditions, confirmed contaminants of concern (COCs) based on concentrations in soil exceeding the RDEC, I/C DEC, and GB PMC, and concentrations in groundwater exceeding SWPC. General recommendations for addressing the COCs are included for each of the RECs. These general recommendations are incorporated into the remediation requirements discussed further in Sections 8 and 9.

Site History and Use. As described in Section 3.0, the 80 Hastings site was historically utilized for industrial activities. Metal plating and associated plating waste treatment and storage operations were conducted on the site from approximately 1972 to 2000. Electrical transformers were located on the northwestern portion of the site. In addition, a subsurface vault is located on the southwestern portion of the site.

Site Geology and Hydrogeology. The depth of overburden soils is approximately 3 to 4 feet bgs, except in the central portion of the site. Urban fill consisting of ash, sand and gravel was also placed at this site prior to the development of the site.

Based on the interpolated bedrock topography, approximately 4 to 5 feet of bedrock may have been removed in the vicinity of the metal plating wastewater treatment subsurface vaults, in the central portion of the building, creating a man-made depression in the bedrock.

It appears that the groundwater table intersects the bedrock topographic surface on the western, northern, and southern sides of the site (see Figure 4). Only a thin veneer of groundwater was present on the eastern side of the site. Groundwater does not appear to migrate off-site to the west, north, and south; overburden groundwater migration appears to be insignificant to the east.

Recognized Environmental Conditions. Recognized environmental conditions (RECs) where activities that may have resulted in a release of petroleum or hazardous materials are identified on Table 8 and are shown on Figure 2. Each of the RECs on the site, except for the Off-Site Groundwater (REC 4), Residual Petroleum (REC 5), Freon (REC 10), Mold (REC 11), Fire Damage (REC 13), and Subsurface Drainage Structures (REC 18), were evaluated to estimate the nature and extent of contamination on the site. General recommendations for addressing site COCs and RECs are also included on Table 8.

The locations of soil and groundwater with exceedances of the CTRSR criteria are presented on Figures 3 and 4. A brief discussion of the potential sources of the COCs, migration pathways, and receptors is provided below.

COCs and Sources of COCs. Historical site operations, building materials, and fill materials constitute potential sources of contamination. The site operations were likely

conducted after filling had occurred, therefore the RECs related to historical site operations overlap onto the fill-related RECs creating a mosaic of RECs in portions of the site, such as the parking lot area located on the western end of the site. Contaminants of concern (COCs) identified in soil at the site include: petroleum hydrocarbons and ETPH, metals (primarily arsenic, and to a lesser extent, cadmium, chromium, thallium, lead, zinc, nickel, and copper) and cyanide.

The presence of COCs identified in soil at the site is related to site operations and history as follows:

- Metals (primarily arsenic, and to a lesser extent, cadmium, chromium, thallium, and lead) and cyanide contamination in REC 1 are attributable to the plating operations.
- COCs related to urban fill materials (REC 2) appear to be a source of metals (arsenic).
- Petroleum hydrocarbons, ETPH, and lead in REC 12 are potentially attributed to releases of fuel oil (sub-grade vault structure).
- Metals (arsenic) impacts in soil in the vicinity of the loading docks (REC 15) are potentially attributable to spills from the loading dock operations.
- Cyanide in soil near the cyanide storage area (REC 16) is potentially related to the historic spill which occurred in this storage area.

COCs in site groundwater (REC 3) include metals (cadmium, copper,,lead, and zinc) and cyanide, near the former plating wastewater treatment structures beneath the central portion of the building. Groundwater in other wells was not able to be sampled and does not appear to be able to migrate off-site.

Building materials or equipment related to facility operations contain COCs and/or are impacted, or are potentially impacted as follows:

- Visible petroleum on the facility floor (REC 5) is likely related to spills from historic operations. Hydraulic oil may also be contained within the hydraulic lifts at the loading docks.
- Residual chemicals (REC 6) appear to be present as impacted materials on floors and in trenches, and plating equipment, within former plating areas.
- PCBs (REC 7) may be contained in light ballasts.
- Lead-based paint (REC 8), at non-hazardous levels, is present in some portions
 of the building.
- Asbestos-containing materials (REC 9) are present in a variety of building materials.
- Freon (REC 10) may be contained in air conditioning units.
- Mold (REC 11) may be present in the building interior.
- Concrete flooring (REC 14) in the areas where plating was formerly performed is impacted with metals.
- Subsurface drainage structures (REC 18) may contain contamination.

The primary human receptors at risk are people coming into direct contact with the contaminated soil and impacted building materials and surfaces. The site is vacant and fenced; therefore the exposure is limited to trespassers. The primary exposure pathways for the COCs in soil and in building materials/surfaces are inhalation, ingestion, and direct dermal contact, depending on what chemical form the COCs are in and how they are partitioned to various types of soil particulates. The primary migration

pathways are migration of the contaminants on wind blown dust particles or surficial runoff from precipitation. However, since much of the site is covered by the building or pavement, these migration pathways are limited.

Due to the site bedrock topography and site hydrogeology, significant off-site migration of groundwater from the site does not appear to be occurring. There is not a high potential for exposure to impacted groundwater originating from the site.

Areas with Contaminants Exceeding RSR Criteria. Locations where soil and concrete contain constituents above the R DEC, I/C DEC, and GB PMC are presented on Figure 3. A significant portion of soils beneath the building and concrete floor surfaces where plating operations were historically performed is likely impacted with metals.

The soil in the immediate vicinity of sub-grade vault, situated on the southern portion of the paved parking area, may contain urban fill materials. Fill materials consisting of ash and cinders were present at this location. ETPH and lead in exceedance of the RES DEC and GB PMC were again found in samples collected from this area (SB-32). A release may have occurred from the sub-grade vault structure.

The arsenic exceedances in the paved parking area appear to be mitigated by the 95% UCL, pending CTDEP approval of this calculation.

Revised RSRs appear to lead to additional exceedances of RSR criteria in soil within the parking lot area in the vicinity of the loading docks.

Several metals and cyanide were detected in groundwater at concentrations exceeding the SWPC in the central portion of the site, as depicted on Figure 4; however, the groundwater does not appear to significantly migrate off-site.

8.0 Conclusions

AECOM has completed a Phase III ESA of the Site. Soil and groundwater samples were collected from the RECs identified in the QAPP and listed below:

- Soil (RECs 1 and 2) Subsurface soils due to cyanide and/or other metals and petroleum contamination from historic metal plating operations, spills, and/or seepage from floor drains or compromised sub-grade structures. In addition, historic fill is included here.
- Soil (REC 12) Vault Structure Subsurface soils due to potential impacts from the subgrade concrete vault structure.
- Soil (REC 15) Loading Docks Subsurface soils due to VOCs and/or other metals and petroleum contamination from spills.
- Soil (REC 16) Chemical Storage Areas Subsurface soils due to cyanide and/or other metals and petroleum contamination from spills and/or seepage from floor drains or compromised sub-grade structures.
- Chemicals may have been used or stored in the tool room (REC 17).
- Groundwater (REC 3) Cyanide and/or other metals and petroleum contamination from historic metal plating operations and/or seepage from floor drains or compromised sub-grade structures.
- Lead based paint (LBP) (REC 8) Due to the age of the Site, the potential exists for the presence of LBP.
- Potential Asbestos Containing Material (PACM) (REC 9) Due to the age of the Site, PACM may be present.

Contamination issues based on the results of the Phase III ESA for these RECs are discussed below with respect to the RSRs.

8.1 Soil

RECs 1 and 2, 15, 16 and 17

These AOCs include the interior of the former metal plating facility where metal plating historically occurred (REC 1), chemical storage rooms (REC 16), tool room (REC 17) and the area in the vicinity of the loading docks (REC 15).

Urban fill materials (REC 2) characterized by ash, cinders, and brick fragments, mixed with brown sand was present throughout the site.

Bedrock was encountered (based on refusal of Geoprobe borings) at a depth of 2 to 4 ft bgs across the majority of the site except for the area in the vicinity of the former wastewater treatment area. The depth to bedrock near the former wastewater treatment area was approximately 9 ft bgs.

The subsurface soils beneath the Site (RECs 1 and 2) appear to have been impacted by the former metal plating facility and to a lesser extent by the use of historic fill material, as evidenced by the elevated metals concentrations and lesser impacts of PAHs in the soils. Based on data collected in the Phase II and Phase III ESAs, soil with metal

exceedances under the building floor is isolated from direct contact and from water infiltration by the building slab foundation. The floor can be sealed to environmentally isolate this soil.

Cyanide was not detected at a concentration above the CT RSR criteria at any boring locations used to evaluate chemical storage areas (REC 16). VOCs were not detected in the soil boring conducted in the tool room (REC 17).

During the Phase II ESA, arsenic, cadmium, chromium, and SPLP cadmium exceeded the GB pollutant mobility criteria at SB-5 (the location where MW-1 was installed), within the area of the former plating operations and wastewater treatment facility.

During the Phase II and III ESAs, metals were found to exceed the SWPC in MW-1 confirming results from the soil sampling.

Arsenic was detected in several samples inside the building and in the paved parking area. Arsenic was found at two locations (SB-16 and SB-28) to be in exceedance of the RES DEC and I/C DEC. Arsenic was detected during the Phase II ESA at a concentration above CT RSR criteria at the SB-2 location, which was used to evaluate the loading dock area (REC 15). During the Phase III ESA, no constituents above the CT RSR criteria was found in that area and no other constituents were detected above RES DEC. The arsenic is likely related to the site-wide urban fill. The 95% UCL calculation for arsenic in the paved parking area indicated that the soil can be considered to not exceed current CT RSRs.

REC 12 – Subgrade Vault

Fill materials consisting of ash and cinders were present at this location. This area may contain urban fill materials.

ETPH and lead in exceedance of the RES DEC and GB PMC were again found in samples collected from this area (SB-32).

A release appears to have occurred from the sub-grade vault structure. This area could be remediated by focused excavation of the vault and surrounding soil to remediate ETPH and lead.

8.2 Groundwater

REC 3 – Site-Wide Groundwater

The results of the groundwater sampling from MW-1, installed during the Phase II ESA, indicate that the groundwater, at least in the area of the monitoring well, has been impacted by the former metal plating operations. It appears this monitoring well is located in a bedrock depression created during the construction of the building. The groundwater sample contained cadmium, copper, lead, zinc, and SPLP cyanide at concentrations in exceedance of the CTRSR SWPC. No VOCs were detected in the groundwater sample. The groundwater in this area could be remediated by extracting it and disposing it off-site, and/or isolating it using an impermeable vertical barrier. The

groundwater beneath the building may already be contained by the foundation of the building.

Four additional groundwater wells were installed at the site during the Phase III ESA; however, none were able to be sampled. Groundwater elevations were measured in all but one of them. Groundwater elevations indicate that water is likely flowing away from the center of the site and into bedrock, as groundwater at the western and eastern edges of the property (MW-4 and MW-3, respectively) was detected just above the bedrock elevation. Groundwater at these locations contained a significant amount of sediment. There was also virtually no groundwater recharge as the peristaltic pump ran dry within minutes of operation. Groundwater at the southern edge of the property at MW-5 was not present. Based on the intersection of the bedrock surface and groundwater table on the west, north, and south sides of the facility, as well as a very thin veneer of groundwater on the east side, it appears that overburden groundwater migration off-site is relatively minimal.

REC 4 – Off-Site Groundwater

Based on the findings in REC 3, there appears to be no impact to the site from off-site groundwater. Overburden groundwater does not appear to migrate onto the site.

8.3 Asbestos Containing Materials

REC 9

Several different types of asbestos-containing materials (ACM) are present in the building at several locations. Additional testing was performed during the Phase III ESA to further evaluate suspected materials and refine the estimate of quantities of ACM. Details of interior and exterior ACM and the total estimated quantities are contained in Hygenix's report found in Appendix E. ACM could be removed during demolition or redevelopment activities.

8.4 Lead-Based Paint

REC 8

Lead-based paint was identified via XRF field screening during the Phase II and III ESAs. Five chip samples were collected in these areas and submitted for TCLP lead analysis. All TCL P sample results were below the EPA hazardous level of 5.0 mg/L. The lead-based paint containing materials can be disposed of as unregulated demolition debris.

8.5 Other Recognized Environmental Conditions

REC 5 — Residual Petroleum

This REC will be addressed during site remediation and redevelopment. Hydraulic oil in lifts will be appropriately characterized and disposed off-site during site remediation and redevelopment.

REC 6 — Residual Chemicals

This REC will be addressed during site remediation and redevelopment. Residual chemicals on building interior flooring and surfaces, as well as in former metal plating equipment will be appropriately characterized and disposed off-site during site remediation and redevelopment. Equipment remaining in the facility will be appropriately decommissioned and disposed off-site.

REC 7 — PCBs

No PCBs were found to exceed the CT RSRs in the soil samples and wipe sample collected near the former transformers and loading dock lifts (soil boring SB-14). Light ballasts in the southern storage area and eastern office areas will be appropriately disposed off-site during site redevelopment.

REC 10 — Freon

This REC will be addressed during site redevelopment. Air conditioning units can be disposed of off-site conventionally.

REC 11 — Mold

This REC will be addressed during site redevelopment. Mold can be addressed conventionally.

REC 13 — Fire Damage

Fire damage including smoke staining was documented. This REC will be addressed during site redevelopment. Smoke damage can be addressed conventionally.

REC 14— Impacted Concrete

This REC will be addressed during site remediation and redevelopment. Concrete from the former plating section of the building could potentially be remediated by pouring a new slab over the existing slab.

REC 17 — Tool Room

No VOCs were detected in the soil boring performed in the area (SB-33). The floor appears to be intact and a release has not been identified.

REC 18 — Subsurface Drainage Structures

This REC will be addressed during site remediation and site redevelopment. Subsurface drainage structures will be cleaned, assessed, and sealed or removed during site remediation and redevelopment.

8.6 Revised CTRSRs

Exceedances of the proposed revised CTRSR criteria for soil samples, including samples conducted during the Phase II investigation, are provided in Table 7. Several new exceedances of the RSRs for metals within the Phase II and III borings are anticipated to occur.

It is not anticipated that there will be significant changes to the exceedances of RSR criteria for groundwater based on the revised RSR criteria

Changes to the exceedances of the proposed revisions to the RSRs for only Phase III borings are as follows:

- The arsenic and ETPH standards were not changed in the proposed revisions to the RSRs, therefore exceedances to these standards would likewise remain unchanged.
- While the mass standard for lead did not change in the proposed revisions, the GB PMC standard was raised from 0.15 mg/L to 120 mg/L. Therefore, sample SB-32 would no longer exceed the GB PMC under the proposed revisions. The cadmium RES DEC standard was lowered from 34 mg/kg to 1.4 mg/kg in the proposed revisions to the RSRs; therefore, cadmium was detected in two samples at concentrations exceeding the revised RES DEC: SB-16 (6-20 inches) at 5.38 mg/kg and SB-16 DUP (6-20 inches) at 8.05 mg/kg.
- Similarly, the nickel RES DEC standard was lowered from 1,400 mg/kg to 45 mg/kg in the proposed revisions; therefore, nickel was detected in the two samples at concentrations exceeding the revised RES DEC: SB-16 at 64.3 mg/kg and SB-16 DUP at 76.7 mg/kg.
- Neither cadmium nor nickel exceeded the existing RES DEC.

Exceedances of the proposed revisions to the RSRs for groundwater samples are provided in Table 7 and as follows:

- The SWPC standards for cadmium, copper, lead, and zinc were all lowered in the proposed revisions to the RSRs. Therefore, exceedances to these standards would remain in effect.
- The SWPC standard for nickel was lowered from 880 μg/L to 290 μg/L; therefore, nickel was detected in MW-1 and MW-1 DUP at a concentration of 411 μg/L and 405 μg/L, respectively, above the revised SWPC.
- The SWPC for total cyanide was not changed in the revisions to the RSRs, therefore both samples are still in exceedance of the SWPC.
- No standard for ETPH exists for the revised I/C VC, RES VC, and SWPC.

9.0 Potential Remediation Requirements

The Regulations of Connecticut State Agencies (RCSA) Sections 22a-133k-1 through 22a-133k-3, inclusive, comprise the Connecticut Remediation Standard Regulations (RSRs). The RSRs apply to sites that meet the definition of "establishment" in the Connecticut Transfer Act. The RSRs also apply to sites undergoing voluntary remediation under Connecticut General Statutes Sections 22a-133x (which includes sites owned by municipalities) and 22a-133y and to sites under an order. The CT DEP suggests that the RSRs be used for guidance on sites that do not fit these two categories and are undergoing investigation or remediation.

Based on the findings of the Phase I ESA (M&E, July 2008), the site does appear to meet the definition of "establishment." The site is not currently in the voluntary remediation program and is not under an order. Due to the site being an establishment, the RSRs are applicable to the site. However, certain remediation funding sources, such as the EPA Brownfields Cleanup Grants, require that the site be entered into CGS Section 22a 133x Voluntary Remediation Program. Additional site characterization is necessary, including the investigation of spills and impacted materials in the concrete slab area. Therefore, detailed remediation planning is recommended as the next step. It is recommended that general remediation concepts be discussed presently to help plan future activities. Provided below is a general discussion of RSR remediation requirements.

General Soil Remediation Requirements. Soil with concentrations of COCs exceeding the GB PMC which is not "environmentally isolated" must be remediated to the seasonal high water table. Soil with concentrations of contaminants exceeding the RES DEC and/or I/C DEC must be remediated to a depth of 15 feet of the ground surface or rendered "inaccessible".

"Environmentally isolated soil" is defined as polluted soil which is (A) beneath an existing building or another existing and permanent structure which the Commissioner has determined in writing would prevent the migration of pollutants; (B) not a continuing source of pollution; (C) not polluted with volatile organic substances, or if polluted with such substances, the concentration of such substances has been reduced to the maximum extent prudent; and (D) above the seasonal high water table. [22a-133k-1(a)(15)]

The pollutant mobility criteria ("PMC") do not apply to environmentally isolated soils, provided an environmental land use restriction ("ELUR") is in effect that ensures that such soil will not be exposed to infiltration of soil water due to demolition of the building or structure. [22a-133k-2(c)(4)(B)]

Environmentally isolated soils are also considered "inaccessible", thereby addressing direct exposure criteria (DEC) exceedances. The RSRs define "inaccessible soils" as polluted soil which is: (A) more than four feet below the ground surface; (B) more than two feet below a paved surface comprised of a minimum of three inches of bituminous concrete or concrete, which two feet may include the depth of any material used as subbase for the pavement; or (C)(i) beneath an existing building or (ii) beneath another existing permanent structure provided written notice that such structure will be used to

prevent human contact with such soil has been provided to the CTDEP. Therefore, soils that exceed DEC may be addressed by covering them with clean fill and/or a paved surface ("rendered inaccessible"). If soils that exceed DEC are rendered inaccessible, an ELUR would have to be recorded on the municipal land records.

An ELUR for the RES DEC would restrict future residential use or the future disturbance of the area, unless remediation to comply with the RES DEC was completed. An ELUR for I/C DEC would restrict future disturbance of the affected soil.

The RSRs allow for the use of an "engineered control" to effectively eliminate migration of contaminants that exceed the pollutant mobility criteria or to render soil that exceeds DEC inaccessible. For the subject site, it is recommended that a redevelopment plan be developed that considers the soil contamination at concentrations exceeding the RES DEC, I/C DEC and GB PMC. The plan could incorporate the utilization of the building and paved surfaces such as parking lots and driveways to cap the contaminated materials. However, soil within the parking lot area could also be addressed using statistical analysis of the 95% UCL and focused excavation of the sub-grade vault area. An ELUR would also be required.

If an engineered control is utilized, prior to using the engineered control as a remedial measure, CTDEP approval is required. In approving the use of an engineered control at the subject sites, the CTDEP would consider the following conditions: 1) remediation of the waste material is not technically practical; 2) the removal of contaminated soil would create an unacceptable risk to human health; 3) and/or the cost of remediation is significantly greater than the cost of an engineered control. Requirements are stipulated for the installation of an engineered control and are completely described in the RSRs. Prior to approval, the CTDEP would likely also consider the frequency and extent to which the site is flooded and how the engineered control is designed to withstand issues related to flooding. In order to implement an engineered control, a report must be submitted to CTDEP summarizing the proposed engineered control and the maintenance and monitoring which will be conducted as part of the engineered control system. A public notice and comment period is also required, and an ELUR would have to be recorded.

Groundwater Remediation Requirements. VOCs were not detected in groundwater above RSR volatilization criteria. If VOCs are not present in the groundwater above RSR volatilization criteria or if vadose zone soil vapor is not impacting the building, vapor intrusion mitigation measures are not required to address VOCs.

The RSRs require that groundwater at this site be remediated to meet the requirements of the SWPC. Given the fact that the potential downgradient receiving surface water bodies are approximately 1,000 ft (eastward) and 3,000 ft (westward) away from the site, natural attenuation of the constituents which were detected at concentrations exceeding SPWC may reduce the concentrations of these constituents to concentrations below the SWPC. Active remediation of groundwater may not be required; however, natural attenuation monitoring would likely be required. The RSRs allow for the calculation of alternate surface water protection criteria. The calculation of the alternate criteria would likely require additional site specific groundwater information, information concerning the receiving water body, as well as the nature and extent of the contaminant plume. CTDEP approval of the alternative SWPC is required.

Groundwater may also be removed and disposed off-site and/or contained within the source area. In both cases, post-remediation monitoring of the groundwater would be required.

10.0 Data Gaps and Recommendations

Based on the results of this Phase II and Phase III ESAs, no further action is recommended for the following RECs:

- REC 4 Off-Site Groundwater
- REC 15 Parking lot area related to exceedances of RSR criteria for arsenic
- REC 17 Tool Room

Based on the sampling completed to date during the Phase II and Phase III ESAs, several data gaps remain. However, it is anticipated that these data gaps can be addressed during site remediation and redevelopment. It is recommended that the following data gaps can be addressed just prior to or during site development activities:

- During site remediation and redevelopment activities which may include removal
 of hydraulic lifts (REC 5 and 15), visual observation of potential soil staining
 should be made. Any hydraulic oil that may be present in the lifts should be
 collected and appropriately characterized and disposed off-site. Petroleumbased oils appear to be present as spills on the former facility floor and should be
 appropriately collected, characterized, and disposed off-site.
- Solids such as sludges, precipitates, and filter cake are visually present on interior facility floors and in floor trenches situated within the former main plating production area, within the former metal plating wastewater treatment tanks, and may also be within former plating equipment and the former laboratory located on-site. These solids likely contain residual chemicals (REC 6) such as cyanide and heavy metals. Other chemicals that are present within the building may also include residual liquids, acidic and/or basic solutions and metals-containing solutions. These residual chemicals should be appropriately characterized and disposed off-site during site remediation and redevelopment.
- Additional sampling of light ballasts (REC 7) for PCBs may be required to determine proper disposal during redevelopment. Based on the data collected during the Phase III ESA, a release from the former transformers to the surrounding soils does not appear to have occurred.
- Subsurface drainage structures should be assessed, cleaned, and sealed or removed during site remediation and redevelopment activities. This may include the collection of soil samples around the drainage structures (REC 18).

Bedrock groundwater may be considered a data gap. However, groundwater is classified as GB and there are no public water supply wells within one mile of the site.

Based on the results of the Phase II and Phase III ESA and anticipated future site use as an industrial/commercial facility, site remediation/redevelopment of the site can potentially include the following approaches:

- Lead-based paint (REC 8) can be conventionally addressed during redevelopment. In addition, based on the TCLP testing of LBP materials performed during the Phase III ESA, these materials may be disposed off-site as non-hazardous demolition debris.
- Asbestos-containing materials (REC 9) can be appropriately handled and disposed off-site.
- Air conditioning units that potentially contain freon (REC 10) may be disposed conventionally via proper disposal.

- Mold (REC 11) and smoke-damaged surfaces on building interior surfaces may be addressed conventionally via cleaning. Environmentally isolate and render inaccessible metals-impacted soil beneath the building (RECs 1 and 2) by keeping the structure in place. A new concrete slab can be poured over the existing slab to seal the slab. The CTDEP would need to approve this structure as an engineered control.
- Render contaminated concrete (RECs 5 and 6) inaccessible within the building by pouring a new concrete slab over the existing slab to seal the slab. The CTDEP would need to approve this as an engineered control.
- Excavate the subgrade vault structure (REC 12) and the lead and ETPH-impacted soil area around the vault structure and dispose of soil off-site. Post-remediation confirmation sampling would be required during excavation to ensure all soil exceeding remediation criteria was removed. After backfill, the excavation area would be re-paved to match surrounding existing conditions.
- Groundwater (REC 3) in the vicinity of monitoring well MW-1 at the approximate center of the former plating operations of the facility require remedial action based on the exceedance of CT RSR SWPC.
 - Based on Geoprobe refusal and interpolated bedrock depths, it appears that MW-1 is located in an area where the bedrock is deeper than the surrounding area.
 - The bedrock may have been excavated during construction activities in order to construct the metal plating wastewater treatment holding tanks.
 - Impacted groundwater may be addressed using one or more of the following approaches:
 - The depressed bedrock area could be dewatered and the removed contaminated water disposed appropriately off-site.
 - The area of impacted groundwater could be isolated from the surrounding shallower bedrock through the construction of an impermeable vertical wall (concrete, slurry, sheet piling, etc.) extending from the ground/floor surface down to competent bedrock. (The existing building foundation may already be acting as a vertical barrier if it is keyed into the bedrock surface.)
 - Monitored natural attenuation of groundwater could be conducted.
 - If a new concrete slab is poured over the existing concrete slab, the depressed bedrock will be hydraulically isolated and no water will accumulate in that area.
 - o It appears that groundwater does not significantly migrate off-site.
 - Post-remediation groundwater monitoring will be required. However, given the lack of overburden groundwater, an alternative monitoring program may be approved by CTDEP.

In addition, all handling and disposal of asbestos-containing, lead-based containing materials, and equipment requiring decommissioning be performed in accordance with all applicable local, state, and federal regulations, as well as by appropriately licensed professionals.

It is recommended that any proposed remedial approach be discussed with CTDEP prior to development of the remedial plans. The remedial approach may require CTDEP approval.

11.0 References

Metcalf & Eddy, Inc., July 2008. Phase I Environmental Site Assessment, Progressive Plating Technologies AKA: Automatic Plating, 80 Hastings Street, Bridgeport, Connecticut.

Metcalf & Eddy, Inc., August 2008. Quality Assurance Project Plan for Phase II Environmental Site Assessment, Progressive Plating Technologies AKA: Automatic Plating, 80 Hastings Street, Bridgeport, Connecticut.

Metcalf & Eddy, Inc., October 2008. Phase II Environmental Site Assessment, Progressive Plating Technologies AKA: Automatic Plating, 80 Hastings Street, Bridgeport, Connecticut.

Metcalf & Eddy, Inc., December 2008. Quality Assurance Project Plan for Phase III Environmental Site Assessment, Progressive Plating Technologies AKA: Automatic Plating, 80 Hastings Street, Bridgeport, Connecticut.

State of Connecticut Department of Environmental Protection (CTDEP). 1996. Remediation Standard Regulations. Section 22a-133k-1). January 1996.

Tables

Figures

Appendices

Appendix A Statement of Limitations

STATEMENT OF LIMITATIONS

The data presented and the opinions expressed in this report are qualified as follows:

- The sole purpose of the investigation and of this report is to assess the physical characteristics of the Site with respect to the presence or absence in the environment of oil or hazardous materials and substances as defined in the applicable state and federal environmental laws and regulations and to gather information regarding current and past environmental conditions at the Site.
- 2. Metcalf & Eddy (M&E) derived the data in this report primarily from visual inspections, examinations of records provided by the Client, interviews with individuals with information about the Site, and a limited number of subsurface explorations made on the dates indicated. The passage of time, manifestation of latent conditions or occurrence of future events may require further exploration at the Site, analysis of the data, and reevaluation of the findings, observations, and conclusions expressed in the report.
- In preparing this report, M&E has relied upon and presumed accurate certain information (or the absence thereof) about the Site and adjacent properties provided by governmental officials and agencies, the Client, and others identified herein. Except as otherwise stated in the report, M&E has not attempted to verify the accuracy or completeness of any such information.
- 4. The data reported and the findings, observations, and conclusions expressed in the report are limited by the Scope of Services, including the extent of subsurface exploration and other tests. The Scope of Services was defined by the requests of the Client, the time and budgetary constraints imposed by the Client, and the availability of access to the Site.
- 5. Because of the limitations stated above, the findings, observations, and conclusions expressed by M&E in this report are not, and should not be considered, an opinion concerning the compliance of any past or present owner or operator of the site with any federal, state or local law or regulation. No warranty or guarantee, whether express or implied, is made with respect to the data reported or findings, observations, and conclusions expressed in this report. Further, such data, findings, observations, and conclusions are based solely upon site conditions in existence at the time of investigation.
- 6. This report has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in connection with the Agreement and the provisions thereof.

Table 1 Summary of Soil and Groundwater Samples 80 Hastings Street Bridgeport, CT AECOM Environment

		Soil Borings		Groundy	vater Monitoring We	ells	TOT	AL #		(QA/QC SAMPLE	S	
	Number of Locations	Number of Mass Analysis Samples	Number of TCLP/SPLP Samples	Number of Locations	Number of Mass Analysis Samples		Number of Locations	Number of Samples	Trip Blanks (1)	Equipment Blanks (2)	Field Duplicates (3)	MS/MSD	Total
Soil													
PCBs (SW-846 Method 8082)**	2	2	0				2	2	0	1	1	0	4
Volatile Organics (EPA 5035A/8260b)	2	2	0				2	2	0	1	1	0	4
Extractable Total Petroleum Hydrocarbons (CTETPH)	4	4	0				4	4	0	1	1	0	6
PP 13 Metals(EPA 6020) (SPLP 1312)	1	1	1				1	2	0	1	1	0	4
Lead (EPA 7010) (TCLP 1311)	2	2	2				2	4	0	1	1	0	6
Arsenic (EPA 7061a)	22	25	3				22	28	0	1	2	0	31
Hexavalent chromium (3060a)	1	1	0				1	1	0	0	1	0	2
Groundwater													
Hexavalent chromium (3060a)				1	1		1	1	0	1	1	0	3
Extractable Total Petroleum Hydrocarbons (CTETPH)				1	1		1	1	0	1	1	0	3
Volatile Organics (EPA 8260b)				1	1		1	1	1	1	1	0	4
PP 13 Metals(EPA 6000/7000)				1	1		1	1	0	1	1	0	3
Cyanide (EPA 335.2)				1	1		1	1	0	1	1	0	3

Notes:

- 1. Trip blanks were submitted with each batch of groundwater samples for volatile organic analysis (one per day).
- 2. Equipment blanks were submitted 1 per 20 samples.
- 3. Field duplicates were submitted 1 per 20 samples.
- 4. 79 samples were collected for PLM analysis of asbestos content (Analysis by Method EPA 600/R-93/116)
- 5. Screening of building surfaces was conducted for lead-based paint using a portable XRF. 5 samples were analyzed for TCLP lead.
- 6. One PCB wipe sample and one QA duplicate PCB wipe sample were collected from the former transformer pad surface and were submitted for PCB analysis (Analysis by Method EPA 8082)

Table 2 Soil Boring and Bedrock Elevations, and Depths to Bedrock 80 Hastings Street Bridgeport, CT AECOM Environment

	Location	Grade	Estimated	Estimated
		Elevation	Depth to	Bedrock
ID	on Site	(ft) (4)	Bedrock (fgs)	Elevation (ft)
SB-1	prkng lt/vault	NA	NA	NA
SB-2	prkng lt/ldng dck	NA	NA	NA
SB-3	int. NW plating	NA	NA	NA
SB-4	int. W plating	54.01	1.5	52.51
SB-5	int. sludge tank	53.92	9	44.92
SB-6	int. central	53.86	7	46.86
SB-7	int. E	54.20	3	51.20
SB-8	int. NE	55.01	2	53.01
SB-9	int. S plating	53.97	4	49.97
SB-10	int. north	53.99	3	50.99
SB-11	asylum street	50.57	3.5	47.07
SB-12	parking lot	51.65	4.5	47.15
SB-13	SE chem. storage	53.60	2.5	51.10
SB-14	parking lot	55.01	6	49.01
SB-15	parking lot	54.67	3	51.67
SB-16	parking lot	54.39	3.5	50.89
SB-17	parking lot	54.18	9	45.18
SB-18	parking lot	53.18	NA	NA
SB-19	parking lot	52.18	3.8	48.38
SB-20	parking lot	52.58	2	50.58
SB-21	parking lot	52.15	4	48.15
SB-22	parking lot	52.08	3	49.08
SB-23	parking lot	52.31	8	44.31
SB-24	parking lot	52.42	2.5	49.92
SB-25	parking lot	52.77	3	49.77
SB-26	parking lot	52.25	4	48.25
SB-27	parking lot	53.50	4	49.50
SB-28	parking lot	52.01	2.5	49.51
SB-29	parking lot	52.01	4	48.01
SB-30	prkng lt/vault	51.91	4	47.91
SB-31	parking lot	51.98	6	45.98
SB-32	prkng lt/vault	51.79	3.5	48.29
SB-33	tool room	53.75	5	48.75
SB-34	parking lot	52.60	4	48.60
SB-35	parking lot	52.37	5.5	46.87
SB-36	parking lot	52.66	4	48.66

Notes:

Survey work completed by D Nafis & Young Engineers, Inc. (December 2008).

NA - Not available

FT BGS = Feet Below Ground Surface

Table 3 Monitoring Well Construction Details 80 Hastings Street Bridgeport, CT AECOM Environment

	Location	Grade Elevation	Inner Casing Elevation	Total Well Depth	Screened Interval	Depth to Groundwater	Groundwater Elevation	Estimated Depth to	Estimated Bedrock	Well Diam.
ID	on Site	(ft) (4)	(PVC) (FT)	(ft bgs)	(ft)	1/2009 (FT)	1/2009 (FT)	Bedrock (ftbgs)	Elevation (ft)	(inch)
MW-1	sludge tank	53.92	53.66	9	0.8-8.8	2.26	51.66	9	44.92	1
MW-2	plating north	53.99	53.91	3	1-3	2.15	51.84	3	50.99	1
MW-3	asylum street	50.57	50.49	3.5	1-3.5	2.55	48.02	3.5	47.07	1
MW-4	pkng lt/ ldng dck	51.65	51.39	4.5	1.5-4.5	3.71	47.94	4.5	47.15	1
MW-5	chem. stor. rm. SE	53.6	53.48	2.5	0.25-2.5	NA	NA	2.5	51.1	1

Notes:

Survey work completed by Nafis & Young Engineers, Inc. (December 2008).

Measuring point is top of PVC for all wells

NM - Not measured

NA - Not available/not applicable

FT BGS = Feet Below Ground Surface

Depth to water was measured at all wells on 1/6/2009

^{*} Depth to bottom remeasured 1/6/2009.

Table 4 Summary of Soil Sample Analytical Results 80 Hastings Street Bridgeport, CT AECOM Environment

		Existing CT RSR	s		Revised CT RSR	s								S	SAMPLING LO	OCATION									
	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	SB-12	SB-12d	SB-13	SB-13 DUP	SB-14	SB-14 DUP	SB-15	SB-16		6 DUP	SB-17	SB-18	SB-19	SB-20	SB-21	SB-22	SB-23	SB-24	SB-25
Parameter Sampling Date							12/22/08 12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08 12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08 12/22/08	12/22/08	12/22/08	12/22/08	12/22/08
Sample Depth																									
Laboratory Report Number							LIMT-22296 LIMT-22477	LIMT-22297	LIMT-22296	LIMT-22296	LIMT-22296	LIMT-22297	LIMT-22296	LIMT-22296 LIMT-22477	LIMT-22297	LIMT-22477	LIMT-22296	LIMT-22296	LIMT-22296	LIMT-22296	LIMT-22296 LIMT-22477	7 LIMT-22296	LIMT-22296	LIMT-22296	LIMT-22296
8082 drywt (mg/kg dry wt)																									<u> </u>
PCB 1016 PCB-1221	10.0	1.00	~	10.0	1.0	~	NT NT NT NT	NT	NT NT	NT NT	<0.121	<0.124	<0.114	NT NT	NT NT	NT	NT	NT NT	NT	NT NT	NT NT	NT	NT	NT NT	NT NT
PCB-1221 PCB-1232	10.0	1.00	~	10.0 10.0	1.0	~	NT NT NT NT	NT NT	NT	NT	<0.121 <0.121	<0.124 <0.124	<0.114 <0.114	NT NT NT NT	NT	NT NT	NT NT	NT NT	NT NT	NT	NT NT	NT NT	NT NT	NT	NT
PCB-1242	10.0	1.00	~	10.0	1.0		NT NT	NT	NT	NT	<0.121	<0.124	<0.114	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
PCB-1248	10.0	1.00	~	10.0	1.0	~	NT NT	NT	NT	NT	<0.121	<0.124	<0.114	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
PCB-1254	10.0	1.00	~	10.0	1.0	~	NT NT	NT	NT	NT	<0.121	<0.124	0.156j	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
PCB-1260	10.0	1.00	~	10.0	1.0	~	NT NT	NT	NT	NT	<0.121	<0.124	<0.114	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
PCB 1262	10.0	1.00	~	10.0	1.0	~	NT NT	NT	NT	NT	<0.121	<0.124	<0.114	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
PCB 1268	10.0	1.00	~	10.0	1.0	~	NT NT	NT	NT	NT	<0.121	<0.124	<0.114	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
8260 solid (mg/kg)	1.000	500	140	1.000	500	1.000	NT NT	NT	0.07	<0.18ui	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
Acetone Acrylonitrile	1,000	1 1	140	1,000	0.12	0.048	NI NI NT NT	NI NT	<0.27uj <0.016ui	<0.18uj <0.011ui	NT NT	NI NT	NT NT	NI NI NT NT	NT NT	NI NT	NI NT	NI NT	NT NT	NT NT	NI NI NT NT	NI NT	NT NT	NT NT	NT NT
tert-Amylmethyl Ether	~	~	0.1	10.0	0.12	0.040	NT NT	NT	<0.003uj	<0.002uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
Benzene	200	21	0.2	57.2	0.7	2.5	NT NT	NT	<0.006uj	<0.002uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
Bromobenzene	~	~	~	~	~	~	NT NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
Bromochloromethane	~	~	~	~	~	~	NT NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
Bromodichloromethane	92	9.9	0.11	92.0	1.1	0.04	NT NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
Bromoform	720	78	0.8	715.4	8.3	248	NT NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
Bromomethane 2-Butanone (MEK)	1,000	95 500	2 80	1,000.0 1.000	33.9 500	1.000.0	NT NT NT NT	NT NT	<0.027uj <0.11ui	<0.018uj <0.069ui	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT
tert-Butyl Alcohol	1,000	500	oU ~	1,000	500	1,000.0	NI NI NT NT	NT NT	<0.11uj <0.11uj	<0.069uj <0.069uj	NT NT	NI NT	NT NT	NI NI NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NI NI NT NT	NT NT	NT NT	NT NT	NT NT
n-Butylbenzene	1.000	500	14	1.000	500	2.0	NT NT	NT	<0.010j	<0.009uj <0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
sec-Butylbenzene	1,000	500	14	1000	500	2.0	NT NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
tert-Butylbenzene	1,000	500	14	~	~	~	NT NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
tert-Butylethyl Ether	~	~	~	~	~	~	NT NT	NT	<0.003uj	<0.002uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
Carbon Disulfide	1,000	500	140	1000	500	30.0	NT NT	NT	<0.016uj	<0.011uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
Carbon Tetrachloride	44	4.7	20	44	3.2	0.1	NT NT	NT NT	<0.006uj	<0.004uj	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT
Chlorobenzene Chlorodibromomethane	1,000	500 7.3	0.1	1000	500	43.0	NT NT	NT	<0.006uj <0.003uj	<0.004uj <0.002uj	NT NT	NT NT	NT NT	NI NI NT NT	NT	NT NT	NT	NT	NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT
Chloroethane	~	7.3	0.1	1000	500	237.0	NT NT	NT	<0.054uj	<0.035uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
Chloroform	940	100	1.2	1000	67.7	2.0	NT NT	NT	<0.011uj	<0.007uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
Chloromethane	440	47	0.54	1000	176.1	3.0	NT NT	NT	<0.027uj	<0.018uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
2-Chlorotoluene	~	~	2	1000	135.5	4.0	NT NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
4-Chlorotoluene	~	~	2	1000	135.5	3.6	NT NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
1,2-Dibromo-3-Chloropropane	4.1	0.44	~	~	~	~	NT NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
1,2-Dibromoethane	0.067	0.007	0.1	~	~	~	NT NT	NT	<0.003uj	<0.002uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
Dibromomethane	~	~	~	~	~	~	NT NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
1,2-Dichlorobenzene 1,3-Dichlorobenzene	1,000	500	3.1 120	1,000 1000	500 67.7	46.0 2.4	NT NT NT NT	NT NT	<0.006uj <0.006uj	<0.004uj	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT
1,4-Dichlorobenzene	240	500 26	15	143.1	10.5	18.8	NT NT	NT	<0.006uj	<0.004uj <0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
trans-1,4-Dichloro-2-Butene	~	~	~	~	~	~	NT NT	NT	<0.000uj	<0.007uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
Dichlorodifluoromethane	~	~	~	~	~	2.0	NT NT	NT	<0.054uj	<0.035uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
1,1-Dichloroethane	1,000	500	14	1,000	500	15.0	NT NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
1,2-Dichloroethane	63	6.7	0.2	63	0.7	0.12	NT NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
1,1-Dichloroethylene	9.5	1.0	1.4	1000	500	2.3	NT NT	NT	<0.011uj	<0.007uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
cis-1,2-Dichloroethylene	1,000	500	14	1000	500	18.6	NT NT NT NT	NT NT	0.009	0.009	NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT
trans-1,2-Dichloroethylene 1,2-Dichloropropane	1,000 84	500 9.0	20	1000 159	500 11.6	0.2	NI NI NT NT	NT	<0.006uj <0.006uj	<0.004uj <0.004uj	NT NT	NI NT	NT NT	NI NI NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NI NI NT NT	NI NT	NT NT	NT NT	NT NT
1,3-Dichloropropane	~	~	~	~	~	~	NT NT	NT	<0.008uj	<0.004uj <0.002uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
2,2-Dichloropropane	~	~	~	~	~	~	NT NT	NT	<0.006uj	<0.002uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
1,1-Dichloropropene	~	~	~	~	~	~	NT NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
cis-1,3-Dichloropropene	32	3.4	0.1	57.2	0.7	0.1	NT NT	NT	<0.003uj	<0.002uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
trans-1,3-Dichloropropene	32	3.4	0.1	57.2	0.7	0.1	NT NT	NT	<0.003uj	<0.002uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
Diethyl Ether	~	~	~	~	~	~	NT NT	NT	<0.054uj	<0.035uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
Diisopropyl Ether	~	~	~	~	~	~	NT NT	NT NT	<0.054uj	<0.035uj	NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT	NT NT	NT	NT NT	NT NT	NT NT
1,4-Dioxane Ethyl Benzene	1,000	500	10.1	1000	500	35.0	NT NT NT NT	NT NT	<0.27uj <0.006uj	<0.18uj <0.004uj	NT NT	NT NT	NT NT	NI NI NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NI NI NT NT	NT NT	NT NT	NT NT	NT NT
Hexachlorobutadiene	7,000	~	~	~	~	~	NT NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
2-Hexanone	~	~	~	~	~	~	NT NT	NT	<0.054uj	<0.035uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
Isopropylbenzene	1,000	500	132	1,000	500	18.0	NT NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
p-Isopropyltoluene	1,000	500	41.8	~	~	18.6	NT NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
MTBE	1,000	500	20	1,000	500	440.0	NT NT	NT	<0.011uj	<0.007uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
Methylene Chloride	760	82	1	763.1	8.8	3.2	NT NT	NT	<0.054uj	<0.035uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT
MIBK	1,000	500	14	1,000	500	1,000.0	NT NT	NT	<0.054uj	<0.035uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT NT
Naphthalene	2,500	1,000 500	56 14	1,000	500	14.0	NT NT	NT NT	<0.011uj <0.006uj	<0.007uj <0.004uj	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT
n Dranulkansana							I INI I INI																		
n-Propylbenzene Stvrene	1,000 1,000	500	20	1,000	135.4	48.0	NT NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT

X:160045450 (80 Hastings, Bridgeport)\S00 Submittals\S03 Phase III ESA\Table 4 and 5 Analytical summary table CAS

		Existing CT RSR	S	F	Revised CT RSR	S										SAM	PLING LOCATION	ON									
Parameter	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	SE	3-12	SB-12d	SB-13	SB-13 DUP	SB-14	SB-14 DUP	SB-15	SB-	-16	SB-16 DUP	SB-17	SB-18	SB-19	SB-20	S	B-21	SB-22	SB-23	SB-24	SB-25
Sampling Date							12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08 1	2/22/08 12/2	2/08 12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08
Sample Depth							12/22/00	12/22/00	12/22/00	122200	I E E E	12,22,00	122200	1222,00	12/22/00	ILIZEDOO I	122	12/22/00	122200	122200	12,22,00	122200	12/22/00	122200	12/22/00	.E/EE/00	12/22/00
Laboratory Report Number							LIMT-22296	LIMT-22477	LIMT-22297	LIMT-22296	LIMT-22296	LIMT-22296	LIMT-22297	LIMT-22296	S LIMT-22296	LIMT-22477 LIN	MT-22297 LIMT-	22477 LIMT-2229	6 LIMT-22296	LIMT-22296	LIMT-22296	LIMT-22296	LIMT-22477	LIMT-22296	LIMT-22296	LIMT-22296	LIMT-22296
1,1,1,2-Tetrachloroethane	220	24	0.2	220	2.5	0.08	NT	NT	NT	<0.006ui	<0.004ui	NT	NT	NT	NT	NT	NT N		NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1,2,2-Tetrachloroethane	29	3.1	0.1	29.0	2.3	0.028	NT	NT	NT	<0.003uj	<0.002uj	NT	NT	NT	NT	NT	NT N	T NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene	110	12	1	10.6	0.8	1.6	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT N	T NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrahydrofuran	~	~	~	753.1	55.0	9.9	NT	NT	NT	<0.027uj	<0.018uj	NT	NT	NT	NT	NT	NT N	T NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Toluene	1,000	500	67	1,000.0	453.9	117.5	NT	NT	NT	0.010	0.006	NT	NT	NT	NT	NT	NT N	T NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2,3-Trichlorobenzene	~	~	~	~	~	~	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT N	T NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2,4-Trichlorobenzene	2,500	680	14	1,000.0	500	2.4	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT N	T NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	1,000	500	40	1,000	500	51.0	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT N	T NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1,2-Trichloroethane	100	11	1	100.0	7.3	0.2	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT N	T NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Trichloroethylene	520	56	1	64.3	0.7	0.52	NT	NT	NT	0.013	0.004	NT	NT	NT	NT	NT	NT N	T NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Trichlorofluoromethane	1,000	500	260	1,000	500.0	35.0	NT	NT	NT	<0.027uj	<0.018uj	NT	NT	NT	NT	NT	NT N		NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2,3-Trichloropropane	~	~	~	~	~	~	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT N	T NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1,2-Trichloro-1,2,2-Trifluoroethane	~	~	~	~	~	~	NT	NT	NT	<0.027uj	<0.018uj	NT	NT	NT	NT	NT	NT N		NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	1,000	500	70	1,000	500	2.4	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT N		NT	NT	NT	NT	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	1,000	500	70	1,000	500	1.9	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT N		NT	NT	NT	NT	NT	NT	NT	NT	NT
Vinyl Chloride	3.0	0.32	0.4	8.0	0.1	38.0	NT	NT	NT	<0.027uj	<0.018uj	NT	NT	NT	NT	NT	NT N		NT	NT	NT	NT	NT	NT	NT	NT	NT
m + p Xylene	1,000	500	19.5	1,000	500	41.0	NT	NT	NT	<0.011uj	<0.007uj	NT	NT	NT	NT	NT	NT N	T NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
o-Xylene	1,000	500	19.5	1,000	500	41.0	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT N	T NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
etph dry weight (mg/kg dry weight)																											
Extractable TPH (ETPH)	2,500	500	2,500	~	~	2,500	NT	110.0	NT	NT	NT	NT	NT	NT	450	NT	NT N	T NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
metals(13pp)sicp (mg/kg dry wt)																											
Antimony	8,200	27.0	~	8,176.0	271.0	~	NT	<4.46		<4.60 N		NT	NT	NT	NT	NT	NT	NT	NT	NT							
Arsenic	10.0	10.0	~	10.0	10.0	~	7.74	NT	5.43	NT	NT	8.91	NT	<2.85	9.89	NT ·	10.2†+ N	T 5.10	6.29	6.17	5.31	8.92	NT	6.95	7.83	6.31	6.14
Beryllium	2.00	2.00	~	408.8	13.6	~	NT	0.66	NT	0.63 N		NT	NT	NT	NT	NT	NT	NT	NT	NT							
Cadmium	1,000	34.0	~	40.9	1.4	~	NT	5.38	NT	8.05 N	T NT	NT	NT	NT	NT	NT	NT	NT	NT	NT							
Chromium	~	~	~	~	~	~	NT	233j	NT	644j N		NT	NT	NT	NT	NT	NT	NT	NT	NT							
Chromium, hexavalent	100	100	~	613.2	20.3	~	NT	12.2		.0 NT	NT	NT	NT	NT	NT	NT	NT	NT	NT								
Chromium, trivalent	51,000	3,900	~	50,000.0	50,000.0	~	NT	NT	NT N		NT	NT	NT	NT	NT	NT	NT	NT	NT								
Copper	76,000	2,500	~	20,440.0	677.4	~	NT	48.00		55.40 N		NT	NT	NT	NT	NT	NT	NT	NT	NT							
Lead	1,000	400	~	1,000	400	~	NT	94j	NT	169j N		NT	NT	NT	NT	NT	NT	NT	NT	NT							
Mercury	610	20.0	~	613.2	20.3	~	NT	0.07		0.11 N		NT	NT	NT	NT	NT	NT	NT	NT	NT							
Nickel	7,500	1,400	~	1,363.0	45.0	~	NT	64.30		76.70 N	1 181	NT	NT	NT	NT	NT	NT	NT	NT	NT							
Selenium	10,000	340	~	10,220.0	340.0	~	NT	<5.58		<5.75 N		NT	NT	NT	NT	NT	NT	NT	NT	NT							
Silver	10,000	340	~	10,220.0	340.0	~	NT	<0.56		<0.58 N		NT	NT	NT	NT	NT	NT	NT	NT	NT							
Thallium	160	5.40	~	163.5	5.4	~	NT	<3.35		<3.45 N		NT	NT	NT	NT	NT	NT	NT	NT	NT							
Zinc	610,000	20,000	~	50,000	20,322.6	~	NT	126	NT	131 N	T NT	NT	NT	NT	NT	NT	NT	NT	NT	NT							
solids (percent) (%)							05.4	NT	04.2	NIT	NIT	02.0	04.2	00.0	89.7	NIT	07.4	T 00.4	92.6	04.0	00.0	00.6	NIT	04.6	05.6	00.0	94.4
Solids, total	~	~	~	~	~	~	85.1	NI	91.3	NT	NT	82.8	81.3	88.0	89.7	NT	87.1 N	T 92.1	92.6	94.9	90.0	88.6	NT	94.6	85.6	88.8	94.4
splp - arsenic (mg/l leachate)			0.1			0.05	NT	NT	NT <0.	010 NT	NT	NT	NT	NT	-0.010	NT	NT	NT	NT								
Arsenic	~	~	0.1	~	~	0.05	NI	NI	N I	N I	NI	NI	IN I	INI	NI	IN I	in 1 <0.	010 NT	IN I	NI	NI	IN I	<0.010	IN I	NI	NI	NI
splp - cd low (mg/l leachate) Cadmium			0.05			0.015	NT	NT	NT <0.	005 NT	NT	NT	NT	NT	NT	NT	NT	NT	NT								
	~	~	0.05	~	~	0.015	INI	INI	191 <0.	JUJ INI	INI	INI	INI	INI	INI	INI	INI	INI	INI								
splp - chromium (mg/l leachate)			0.5				NT	NT	NT 0.	03 NT	NT	NT	NT	NT	NT	NT	NT	NT	NT								
Chromium	~	~	0.5	~	~	~	NI	NI	N I	N I	NI	NI	IN I	NI	NI	IN I	in 1 0.	03 NT	IN I	NI	NI	NI	NI	IN I	NI	NI	N I
splp - copper (mg/l leachate)			13			0.5	NT	NT	NT <0	01 NT	NT	NT	NT	NT	NT	NT	NT	NT	NT								
Copper	~	~	13	~	~	0.5	NI	NI	NT <0	UI NI	N I	NI	NI	NI	NI	N I	NI	NI	NI								
splp - lead icp (mg/l leachate) Lead	~	~	0.15	~	~	120	NT	NT	NT <0.	015 NT	NT	NT	NT	NT	NT	NT	NT	NT	NT								
splp - nickel (mg/l leachate) Nickel			1.0			2900	NT	NT	NT 0.	03 NT	NT	NT	NT	NT	NT	NT	NT	NT	NT								
splp - zinc (mg/l leachate)	~	~	1.0	~	~	2300	INI	INI	141	INI	141	141	141	INI	141	INI	INI U.	JO INI	INI	INI	INI	INI	INI	141	INI	141	INI
Zinc (mg/r leachate)	~	~	50	~	~	6.5	NT	NT	NT 0.0	20 NT	NT	NT	NT	NT	NT	NT	NT	NT	NT								

- Notes:

 1. NT = Not Tested

 2. ~ = No Standard available

 3. A bold outlined cell indicates that the minumum laboratory reporting limit exceeds one or more of the regulatory criteria.

 4. A shaded cell indicates value is in exceedence of a CT Remediation Standard Regulation. Specific exceedences are indicated as follows:

 † Value exceeds Residential Direct Exposure Criteria

 † Value exceeds Residential Direct Exposure Criteria

 † Value exceeds Groundwater Class B Pollutant Mobility Criteria

 5. RSR criteria are in same units as analyte.

 6. Results are only compared to existing CT RSRs. No exceedances to revised CT RSRs are called out. Revised CT RSRs shown for informational purposes only.

 A summary of exceedance changes due to the revised RSRs is provided in Table 7.

 7. J=concentration is an estimate

 8. ujeraporing limit is an estimate

 9. eb= analyte was detected in the associated equipment blank and there is an indeterminate amount of error in the result presented

X:\60045450 (80 Hastings, Bridgeport)\500 Submittals\503 Phase III ESA\Table 4 and 5 Analytical summary table CAS 2 of 4

Table 4 Summary of Soil Sample Analytical Results 80 Hastings Street Bridgeport, CT AECOM Environment

		Existing CT RSRs			Revised CT RSR	De	1											CAMPI	ING LOCATION									
	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	SB-26	SB-27	SB-2	•	SB-	20	SB-29 DUP	ep.	3-30	SB-30 DUP	SB-31	SB-32	SB-32 DUP	SB-33	SB-34 0-2FT	SB-34 2-4	SP 25 0.2	SB-35 4-5	SB-36 0-2	SB-36 2-4	ЕВ	
Parameter Sampling Date	I/C DEC	KES DEC	GB PWC	I/C DEC	KES DEC	GB FWC	12/22/08	12/22/08				12/22/08	12/22/08	12/22/08		12/22/08	12/22/08	12/22/08 12/22/		12/22/08	12/23/08	12/23/08	12/23/08	12/23/08	12/23/08	12/23/08	12/23/08	
Sample Depth							12/22/00	12/22/00	12/22/06	12/22/00	12/22/00	12/22/00	12/22/06	12/22/00	12/22/00	12/22/06	12/22/06	12/22/06 12/22/	06 12/22/06	12/22/00	0-2FT	12/23/06	12/23/06	12/23/06	12/23/06	12/23/06	12/23/06 NA	
Laboratory Report Number							LIMT-22296	LIMT-22296	LIMT-22296 L	IMT-22477 L	IMT-22296	IMT-22477	LIMT-22297	LIMT-22296	LIMT-22477	LIMT-22297	LIMT-22296	LIMT-22296 LIMT-22	2477 LIMT-22297	LIMT-22296	LIMT-22296	LIMT-22297	LIMT-22297	LIMT-22297	LIMT-22297	LIMT-22297	LIMT-22297	_
8082 drywt (mg/kg dry wt) PCB 1016	10.0	1.00		10.0	1.0	_	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT	NT	8082 water (ug/l) PCB 1016	<0.20
PCB-1221	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT	NT	PCB-1221	<0.20
PCB-1232	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT	NT	PCB-1232	<0.20
PCB-1242	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT		NT	NT	NT	NT	NT	NT	NT	PCB-1242	<0.20
PCB-1248 PCB-1254	10.0 10.0	1.00 1.00	~	10.0 10.0	1.0	~	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT	NT NT	NT NT	NT NT	NT NT	NT NT	PCB-1248 PCB-1254	<0.20 <0.20
PCB-1254 PCB-1260	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT		NT	NT	NT	NT	NT	NT	NT	PCB-1254 PCB-1260	<0.20
PCB 1262	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT	NT	PCB 1262	<0.20
PCB 1268	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT	NT	PCB 1268	<0.20
8260 solid (mg/kg) Acetone	1,000	500	140	1,000	500	1,000	NT	NT	NT	NT	NIT	NIT	NT	NT	NT	NIT	NT	NT NT	NT	<0.097uj	NT	NIT	NT	NT	NIT	NIT	8260 water (ug/l) Acetone	<5.0
Acrylonitrile	1,000	1.1	0.1	10.6	0.12	0.048	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.097uj	NT	NT	NT	NT	NT	NT	Acrylonitrile	<2.0
tert-Amylmethyl Ether	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.001uj	NT	NT	NT	NT	NT	NT	tert-Amylmethyl Ether	<0.5
Benzene	200	21	0.2	57.2	0.7	2.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	Benzene	<0.5
Bromoblenzene Bromochloromethane	~	~	~	~	~	~	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	<0.002uj <0.002uj	TN	NT NT	NT NT	NT NT	NT NT	NT NT	Bromochloromethane	<0.5 <0.5
Bromochloromethane Bromodichloromethane	92	9.9	0.11	92.0	1.1	0.04	NT NT	NT NT	NI NT	NT NT	NT NT	NT NT	NI NT	NT NT	NT NT	NT NT	NT NT	NI NI NT NT	NI NT	<0.002uj <0.002ui	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	Bromochloromethane Bromodichloromethane	<0.5 <0.5
Bromoform	720	78	0.8	715.4	8.3	248	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	Bromoform	<5.0
Bromomethane	1,000	95	2	1,000.0	33.9	0.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.010uj	NT	NT	NT	NT	NT	NT	Bromomethane	<0.5uj
2-Butanone (MEK)	1,000	500	80	1,000	500	1,000.0	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT	NT NT	NT NT	<0.039uj	NT	NT NT	NT NT	NT NT	NT NT	NT NT	2-Butanone (MEK)	4.0
tert-Butyl Alcohol n-Butylbenzene	1.000	500	~ 14	1.000	500	2.0	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	<0.039uj <0.002ui	NI NT	NT NT	NT NT	NT NT	NT NT	NT NT	tert-Butyl Alcohol n-Butylbenzene	<5.0uj <0.5
sec-Butylbenzene	1,000	500	14	1000	500	2.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	sec-Butylbenzene	<0.5
tert-Butylbenzene	1,000	500	14	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	tert-Butylbenzene	<0.5
tert-Butylethyl Ether	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.001uj	NT	NT NT	NT	NT	NT	NT	tert-Butylethyl Ether	<0.5
Carbon Disulfide	1,000 44	500 4.7	140	1000	500 3.2	30.0	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	<0.006uj <0.002ui	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	Carbon Disulfide Carbon Tetrachloride	<0.5 <0.5
Carbon Tetrachloride Chlorobenzene	1.000	500	20	1000	500	43.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	Chlorobenzene	<0.5
Chlorodibromomethane	68	7.3	0.1	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.001uj	NT	NT	NT	NT	NT	NT	Chlorodibromomethane	<0.5
Chloroethane	~	~	~	1000	500	237.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.020uj	NT	NT	NT	NT	NT	NT	Chloroethane	<1.0
Chloroform	940	100	1.2	1000	67.7	2.0	NT	NT	NT	NT NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.004uj	NT NT	NT	NT	NT	NT	NT	Chloroform	<0.5
Chloromethane 2-Chlorotoluene	440	47	0.54	1000 1000	176.1 135.5	3.0 4.0	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT		<0.010uj <0.002uj	NI NT	NT NT	NT NT	NT NT	NT NT	NT NT	Chloromethane 2-Chlorotoluene	<0.5 <0.5
4-Chlorotoluene	~	~	2	1000	135.5	3.6	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT		<0.002uj	NT	NT	NT	NT	NT	NT	4-Chlorotoluene	<0.5
1,2-Dibromo-3-Chloropropane	4.1	0.44	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	1,2-Dibromo-3-Chloropropane	<5.0uj
1,2-Dibromoethane	0.067	0.007	0.1	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT		<0.001uj	NT	NT	NT	NT	NT	NT	1,2-Dibromoethane	<0.50
Dibromomethane	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT		<0.002uj	NT	NT	NT	NT	NT	NT	Dibromomethane	<0.5
1,2-Dichlorobenzene 1,3-Dichlorobenzene	1,000 1,000	500 500	3.1 120	1,000	500 67.7	46.0 2.4	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	<0.002uj <0.002uj	NI NT	NT NT	NT NT	NT NT	NT NT	NT NT	1,2-Dichlorobenzene 1,3-Dichlorobenzene	<0.5 <0.5
1,4-Dichlorobenzene	240	26	15	143.1	10.5	18.8	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	1,4-Dichlorobenzene	<0.5
trans-1,4-Dichloro-2-Butene	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT		<0.004uj	NT	NT	NT	NT	NT	NT	trans-1,4-Dichloro-2-Butene	<0.5
Dichlorodifluoromethane	~	~	~	~	~	2.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.020uj	NT	NT	NT	NT	NT	NT	Dichlorodifluoromethane	<0.5
1,1-Dichloroethane 1,2-Dichloroethane	1,000	500 6.7	14	1,000	500	15.0 0.12	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	<0.002uj <0.002uj	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	1,1-Dichloroethane 1,2-Dichloroethane	<0.5 <0.5
1,1-Dichloroethylene	9.5	1.0	1.4	1000	500	2.3	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	1,1-Dichloroethylene	<0.5
cis-1,2-Dichloroethylene	1,000	500	14	1000	500	18.6	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	cis-1,2-Dichloroethylene	<0.5
trans-1,2-Dichloroethylene	1,000	500	20	1000	500	10.7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	trans-1,2-Dichloroethylene	<0.5
1,2-Dichloropropane 1,3-Dichloropropane	84	9.0	1	159	11.6	0.2	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	<0.002uj <0.001ui	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	1,2-Dichloropropage	<0.5 <0.5
1,3-Dichloropropane 2,2-Dichloropropane	~	~	~	~	~	~	NT NT	NT NT	NI NT	NT NT	NT NT	NT NT	NI NT	NT NT	NT NT	NT	NT NT	NI NI	NI NT	<0.001uj <0.002uj	NT	NT NT	NT NT	NT NT	NT NT	NT NT	1,3-Dichloropropane 2,2-Dichloropropane	<0.5 <0.5
1,1-Dichloropropene	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	1,1-Dichloropropene	<0.5
cis-1,3-Dichloropropene	32	3.4	0.1	57.2	0.7	0.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.001uj	NT	NT	NT	NT	NT	NT	cis-1,3-Dichloropropene	< 0.50
trans-1,3-Dichloropropene	32	3.4	0.1	57.2	0.7	0.1	NT NT	NT NT	NT NT	NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	<0.001uj	NT	NT NT	NT NT	NT NT	NT NT	NT NT	trans-1,3-Dichloropropene	<1.0
Diethyl Ether Diisopropyl Ether	~	~	~	~	~	~	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	<0.020uj <0.020uj	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	Diethyl Ether Diisopropyl Ether	<0.5 <0.5
1.4-Dioxane	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.020uj	NT	NT	NT	NT	NT	NT	1.4-Dioxane	<50.0uj
Ethyl Benzene	1,000	500	10.1	1000	500	35.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	Ethyl Benzene	<0.5
Hexachlorobutadiene	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	Hexachlorobutadiene	<1.0
2-Hexanone	1,000	500	132	1,000	500	18.0	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	<0.020uj <0.002uj	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	2-Hexanone	<2.0 <0.5
Isopropylbenzene p-Isopropyltoluene	1,000	500	41.8	7,000	200	18.0	NT NT	NT	NT	NT	NT	NT	NT	NT NT	NT NT	NT NT	NT	NT NT		<0.002uj	NT NT	NT	NT	NT NT	NT NT	NT	Isopropylbenzene p-Isopropyltoluene	<0.5
MTBE	1,000	500	20	1,000	500	440.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.004uj	NT	NT	NT	NT	NT	NT	MTBE	<0.5
Methylene Chloride	760	82	1	763.1	8.8	3.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT	NT	<0.020uj	NT	NT	NT	NT	NT	NT	Methylene Chloride	1.0
MIBK	1,000	500	14	1,000	500	1,000.0	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT	NT NT	NT NT	NT NT	<0.020uj	NT	NT NT	NT NT	NT NT	NT NT	NT NT	MIBK	<2.0
Naphthalene n-Propylbenzene	2,500 1,000	1,000 500	56 14	1.000	500	14.0	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	<0.004uj <0.002uj	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT	Naphthalene n-Propylbenzene	<0.5 <0.5
Styrene	1,000	500	20	1,000	135.4	48.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT NT		<0.002uj	NT	NT	NT	NT	NT	NT	Styrene	<0.5
J. 5.15	1,000	550	20	1,000	133.4	70.0	141	141	141	191	181	191	141	141	141	141	191	INI INI	INI	~0.002uJ	INI	1 (81	INI	INI	I (NI	(NI	0.5.0.10	<0.

X:160045450 (80 Hastings, Bridgeport)\S00 Submittals\S03 Phase III ESA\Table 4 and 5 Analytical summary table CAS

Table 4 Summary of Soil Sample Analytical Results 80 Hastings Street Bridgeport, CT AECOM Environment

		Existing CT RSR	s		Revised CT RSR	Rs											SA	MPLING	LOCATION									
Parameter	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	SB-26	SB-27	SB-28		SB-29	SB-29 DUP	s	B-30	SB-30 DUP	SB-31	SB-32		SB-32 DUP	SB-33	SB-34 0-2FT	SB-34 2-4	SB-35 0-2	SB-35 4-5	SB-36 0-2	SB-36 2-4	EB	
Sampling Date							12/22/08	12/22/08	12/22/08 12/22	/08 12/22/0	8 12/22	/08 12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08 1	2/22/08	12/22/08	12/22/08	12/23/08	12/23/08	12/23/08	12/23/08	12/23/08	12/23/08	12/23/08	
Sample Depth																					0-2FT						NA	
Laboratory Report Number							LIMT-22296 L	IMT-22296	LIMT-22296 LIMT-2	2477 LIMT-222	96 LIMT-2	2477 LIMT-22297	LIMT-22296	6 LIMT-22477	LIMT-22297	LIMT-22296	LIMT-22296 LIN	NT-22477	LIMT-22297	LIMT-22296	LIMT-22296	LIMT-22297	LIMT-22297	LIMT-22297	7 LIMT-22297	LIMT-2229	7 LIMT-22297	
1.1.1.2-Tetrachloroethane	220	24	0.2	220	2.5	0.08	NT	NT	NT N	NT	N7		NT	NT	NT	NT	NT	NT	NT	<0.002ui	NT	NT	NT	NT	NT	NT	1.1.1.2-Tetrachloroethane	< 0.5
1,1,2,2-Tetrachloroethane	29	3.1	0.1	29.0	2.3	0.028	NT	NT	NT N	NT	N7	NT	NT	NT	NT	NT	NT	NT	NT	<0.001uj	NT	NT	NT	NT	NT	NT	1,1,2,2-Tetrachloroethane	<0.5
Tetrachloroethylene	110	12	1	10.6	0.8	1.6	NT	NT	NT N	NT	N7	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	Tetrachloroethylene	<0.5
Tetrahydrofuran	~	~	~	753.1	55.0	9.9	NT	NT	NT N	NT	N7	NT	NT	NT	NT	NT	NT	NT	NT	<0.010uj	NT	NT	NT	NT	NT	NT	Tetrahydrofuran	<5.0
Toluene	1,000	500	67	1,000.0	453.9	117.5	NT	NT	NT N	NT	N7	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	Toluene	<0.5
1,2,3-Trichlorobenzene	~	~	~	~	~	~	NT	NT	NT N	NT	N	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	1,2,3-Trichlorobenzene	<0.5
1,2,4-Trichlorobenzene	2,500	680	14	1,000.0	500	2.4	NT	NT	NT N	NT	N7	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	1,2,4-Trichlorobenzene	<0.5
1,1,1-Trichloroethane	1,000	500	40	1,000	500	51.0	NT	NT	NT N	NT	N7		NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	1,1,1-Trichloroethane	<0.5
1,1,2-Trichloroethane	100	11	1	100.0	7.3	0.2	NT	NT	NT N	NT	N7	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	1,1,2-Trichloroethane	<0.5
Trichloroethylene	520	56	1	64.3	0.7	0.52	NT	NT	NT N	NT	N7		NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	Trichloroethylene	< 0.5
Trichlorofluoromethane	1,000	500	260	1,000	500.0	35.0	NT	NT	NT N	NT	N7	NT	NT	NT	NT	NT	NT	NT	NT	<0.010uj	NT	NT	NT	NT	NT	NT	Trichlorofluoromethane	<0.5
1,2,3-Trichloropropane	~	~	~	~	~	~	NT	NT	NT N	NT	N7		NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	1,2,3-Trichloropropane	<0.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	~	~	~	~	~	~	NT	NT	NT N	NT	N7		NT	NT	NT	NT	NT	NT	NT	<0.010uj	NT	NT	NT	NT	NT	NT	1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5
1,2,4-Trimethylbenzene	1,000	500	70	1,000	500	2.4	NT	NT	NT N	NT	N7	141	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	1,2,4-Trimethylbenzene	<0.5
1,3,5-Trimethylbenzene	1,000	500	70	1,000	500	1.9	NT	NT	NT N	NT	N7		NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	1,3,5-Trimethylbenzene	<0.5
Vinyl Chloride	3.0	0.32	0.4	8.0	0.1	38.0	NT	NT	NT N	NT	N7		NT	NT	NT	NT	NT	NT	NT	<0.010uj	NT	NT	NT	NT	NT	NT	Vinyl Chloride	<0.5
m + p Xylene	1,000	500	19.5	1,000	500	41.0	NT	NT	NT N	NT	N7	NT	NT	NT	NT	NT	NT	NT	NT	<0.004uj	NT	NT	NT	NT	NT	NT	m + p Xylene	<1.0
o-Xylene	1,000	500	19.5	1,000	500	41.0	NT	NT	NT N	NT	N7	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	o-Xylene	<0.5
etph dry weight (mg/kg dry weight)																											etph water (mg/l)	
Extractable TPH (ETPH)	2,500	500	2,500	~	~	2,500	NT	NT	NT N	NT	N7	NT NT	230	NT	NT	NT	850 ⁺	NT	740 ⁺	NT	NT	NT	NT	NT	NT	NT	Extractable TPH (ETPH)	0.108
metals(13pp)sicp (mg/kg dry wt)	-,		_,,,,,,			-,000																					6020 pp 12 water (ug/L)	
Antimony	8,200	27.0	~	8,176.0	271.0	~	NT	NT	NT N	NT	N7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Antimony	<5.00
Arsenic	10.0	10.0	~	10.0	10.0	~	7.95	7.32	16.8 ^{†+} N	8.57	N	7.24	6.21	NT	NT	6.22	6.50	NT	NT	NT	7.01	6.26	8.02	7.42	5.45	5.57	Arsenic	<2.00
Beryllium	2.00	2.00	~	408.8	13.6	~	NT	NT	NT N	NT	N7		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Beryllium	<2.00
Cadmium	1,000	34.0	~	40.9	1.4	~	NT	NT	NT N	NT	N7		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Cadmium	<2.50
Chromium	~	~	~	~	~	~	NT	NT	NT N	NT	N ²	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Chromium	<50.0
Chromium, hexavalent	100	100	~	613.2	20.3	~	NT	NT	NT N	NT	N ²	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	Chromium, hexavalent	NT
Chromium, trivalent	51,000	3,900	~	50,000.0	50,000.0	~	NT	NT	NT N	NT	N ²	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Chromium, trivalent	NT
Copper	76,000	2,500	~	20,440.0	677.4	~	NT	NT	NT N	NT	N7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Copper	<25.0
Lead	1,000	400	~	1,000	400	~	NT	NT	NT N	NT	N7	NT	71.1	NT	46.2	NT	887.0+	NT	NT	NT	NT	NT	NT	NT	NT	NT	Lead	<5.00
Mercury	610	20.0	~	613.2	20.3	~	NT	NT	NT N	NT	N7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Mercury	<0.00010
Nickel	7.500	1,400	~	1.363.0	45.0	~	NT	NT	NT N	NT	N7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Nickel	<25.0
Selenium	10,000	340	~	10,220.0	340.0	~	NT	NT	NT N	NT	N7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Selenium	<25.0
Silver	10,000	340	~	10,220.0	340.0	~	NT	NT	NT N	NT	N7		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Silver	<2.50
Thallium	160	5.40	~	163.5	5.4	~	NT	NT	NT N	NT	N7		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Thallium	<1.00
Zinc	610,000	20.000	~	50.000	20.322.6	~	NT	NT	NT N		N7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Zinc	<100
solids (percent) (%)	010,000	20,000		00,000	E0,0EE.0								1														solids (percent) (%)	1,00
Solids, total	~	~	~	~	~	~	85.4	86.8	92.2 N	93.1	N7	89.3	90.9	NT	86.4	88.9	83.7	NT	85.1	NT	88.9	87.1	91.3	80.3	93.9	86.7	Solids, total	NT
splp - arsenic (mg/l leachate)							00.1	00.0	OZ.E IV	00.1		00.0	00.0		00.1	00.0	00.7		00.1		00.0	07.1	01.0	00.0	00.0	00.7	splp - arsenic (mg/l leachate)	
Arsenic	~	~	0.1	~	~	0.05	NT	NT	NT <0.0	10 NT	<0.0	10 NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Arsenic	NT
splp - cd low (mg/l leachate)			0			0.00			40.0		-0.0		1	1		 							1	1	1	1	splp - cd low (mg/l leachate)	
Cadmium	~	~	0.05	~	~	0.015	NT	NT	NT N	NT	N1	NT NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Cadmium	NT
splp - chromium (mg/l leachate)			0.00			0.010	131	131	141 14	181	I IN	131	131	131	141	141	191	. 41	131	131	191	191	131	131	141	131	splp - chromium (mg/l leachate)	191
Chromium	~	~	0.5	~	_	_	NT	NT	NT N	NT	N1	NT NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Chromium	NT
splp - copper (mg/l leachate)		-	0.5				INI	141	141 14	181	- 10	141	141	141	141	141	141	141	141	141	181	141	141	141	141	141	splp - copper (mg/l leachate)	- 101
Copper (mg/neachate)	~	~	13	~	~	0.5	NT	NT	NT N	NT	N1	NT NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Conner	NT
splp - lead icp (mg/l leachate)	~	~	13	~	~	0.5	141	INI	INI IN	141	IN	INI	INI	141	141	INI	INI	INI	INI	141	INI	INI	INI	141	INI	191	splp - lead icp (mg/l leachate)	INI
spip - lead icp (mg/i leachate)	~	~	0.15			120	NT	NT	NT N	NT	N	NT	NT	0.059	NT	NT	NT	0.16*	NT	NT	NT	NT	NT	NT	NT	NT	l and	NT
splp - nickel (mg/l leachate)	~	~	0.15	~	~	120	INI	INI	INI IN	141	IN	INI	INI	0.033	141	INI	INI	0.10	141	141	INI	INI	INI	141	INI	191	splp - nickel (mg/l leachate)	INI
Nickel	~	~	1.0	~		2900	NT	NT	NT N	NT	N	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Nickel	NT
splp - zinc (mg/l leachate)	~	~	1.0	~	~	2500	INI	INI	INI IN	141	IN	INI	INI	INI	141	INI	INI	INI	INI	141	INI	INI	INI	141	INI	191	splp - zinc (mg/l leachate)	INI
Zinc (IIIg/I leachate)		~	50			6.5	NT	NT	NT N	NT	NI	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Zinc (mg/ricachate)	NT
LIIIC	~	~	30	~	~	0.0	INI	INI	INI N	INI	I N	INI	INI	INI	INI	INI	INI	INI	INI	INI	INI	I IN I	INI	INI	INI	I IN I	JEHIU .	INI

- Notes:

 1. NT = Not Tested

 2. = No Standard available

 3. A bold outlined cell indicates that the minumum laboratory reporting limit exceeds one or more of the regulatory criteria.

 4. A shaded cell indicates value is in exceedence of a CT Remediation Standard Regulation. Specific exceedences are indicated as follows:

 † Value exceeds Industrial/Commercial Direct Exposure Criteria

 † Value exceeds Groundwarder Class B Pollutant Mobility Criteria

 5. RSR criteria are in same units as analyte.

 6. Results are only compared to existing CT RSRs. No exceedances to revised CT RSRs are called out. Revised CT RSRs shown for informational p A summary of exceedance changes due to the revised RSRs is provided in Table 7.

 7. j=concentration is an estimate

 8. uj=reporting limit is an estimate

 9. eb= analyte was detected in the associated equipment blank and there is an indeterminate amount of error in the result presented

X:\60045450 (80 Hastings, Bridgeport)\500 Submittals\503 Phase III ESA\Table 4 and 5 Analytical summary table CAS 4 of 4

Table 5 Summary of Groundwater Sample Analytical Results 80 Hastings Street Bridgeport, CT AECOM Environment

		Existing CT RSRs			Revised CT RSRs	i		SAMPLING	LOCATION	
Parameter	I/C VC	RES VC	SWPC	I/C VC	RES VC	SWPC	ЕВ	MW-1	MW-1 DUP	TRIP BLANK
Sampling Date							1/6/09	1/6/09	1/6/09	1/6/09
Sample Depth							NA	NA	NA	NA
Laboratory Report Number							LIMT-22446	LIMT-22446	LIMT-22446	LIMT-22446
6020 pp 12 water (ug/L)										
Antimony	~	~	86,000	~	~	1,900.0	<5.00	10.1	9.44	NT
Arsenic	~	~	4.00	~	~	5.0	<2.00	2.65	2.40	NT
Beryllium	~	~	4.00	~	~	36.0	<2.00	<2.00	<2.00	NT
Cadmium	~	~	6.00	~	~	1.5	<2.50	836*	831*	NT
Chromium	~	~	~	~	~	~	<50.0	860	821	NT
Chromium, hexavalent	~	~	110.0	~	~	110.0	<0.004	1.02	1.00	NT
Chromium, trivalent	~	~	1200	~	~	420.0	NT	NT	NT	NT
Copper	~	~	48.0	~	~	50.0	<25.0	404*	430*	NT
Lead	~	~	13.0	~	~	12.0	<5.00	65.9*	78.2*	NT
Mercury	~	~	0.4	~	~	7.7	<0.00010	0.00017	0.00017	NT
Nickel	~	~	880	~	~	290.0	<25.0	411	405	NT
Selenium	~	~	50.0	~	~	50.0	<25.0uj	<25.0uj	<25.0uj	NT
Silver	~	~	12.0	~	~	10.0	<2.50	<2.50	<2.50	NT
Thallium	~	~	63.0	~	~	148.0	<1.00	<1.00	<1.00	NT
Zinc	~	~	123	~	~	650.0	<100	1780*	1870*	NT
8082 water (ug/l)										
PCB 1016	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
PCB-1221	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
PCB-1232	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
PCB-1242	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
PCB-1248	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
PCB-1254	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
PCB-1260	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
PCB 1262	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
PCB 1268	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
8260 water (ug/l)										
Acetone	50,000	50,000	~	50,000.0	50,000.0	10,000.0	<5.0uj	<5.0uj	<5.0uj	<5.0
Acrylonitrile	~	~	20.0	93.6	2.4	20	<2.0	<2.0	<2.0	<2.0
tert-Amylmethyl Ether	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
Benzene	530	130	710	304.0	125.0	623.0	<0.5	<0.5	<0.5	<0.5
Bromobenzene	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
Bromochloromethane	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	73.0	2.3	~	80.0	2.0	1,394.0	<0.5	<0.5	<0.5	<0.5
Bromoform	2,300	75.0	10,800	~	~	1,240.0	<3.0	<3.0	<3.0	<3.0
Bromomethane	~	~	~	389.0	32.0	0.5	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50,000	50,000	~	50,000.0	50,000.0	10,000.0	<2.0	<2.0	<2.0	<2.0
tert-Butyl Alcohol	~	~	~	~	~	~	<5.0uj	<5.0uj	<5.0uj	<5.0
n-Butylbenzene	21,000	1,500	~	17,780.0	1,295.0	10.0	<0.5	<0.5	<0.5	<0.5
sec-Butylbenzene	20,000	1,500	~	16,143.0	1,175.0	10.0	<0.5	<0.5	<0.5	<0.5

Table 5 Summary of Groundwater Sample Analytical Results 80 Hastings Street Bridgeport, CT AECOM Environment

		Existing CT RSRs			Revised CT RSRs			SAMPLING	LOCATION	
Parameter	I/C VC	RES VC	SWPC	I/C VC	RES VC	SWPC	ЕВ	MW-1	MW-1 DUP	TRIP BLANK
Sampling Date							1/6/09	1/6/09	1/6/09	1/6/09
Sample Depth							NA	NA	NA	NA
Laboratory Report Number							LIMT-22446	LIMT-22446	LIMT-22446	LIMT-22446
tert-Butylbenzene	~	~	~	~	~	10.0	<0.5	<0.5	<0.5	<0.5
tert-Butylethyl Ether	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
Carbon Disulfide	~	~	~	~	~	150.0	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride	14.0	5.3	132	13.7	5.6	133.0	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	23,000	1,800	420,000	26,684.0	2,166.0	470.0	<0.5	<0.5	<0.5	<0.5
Chlorodibromomethane	~	~	1,020	~	~	~	<2.0	<2.0	<2.0	<2.0
Chloroethane	29,000	12,000	~	28,878.0	11,828.0	10,000.0	<0.5	<0.5	<0.5	<0.5
Chloroform	62.0	26.0	14,100	1,195.0	99.0	1,400.0	9.0	1.2u	1.2u	4.2u
Chloromethane	5,500	390	~	1,846.0	146.0	10,000.0	<4.0uj	<4.0uj	<4.0uj	<4.0
2-Chlorotoluene	~	~	~	2,426.0	200.0	10,000.0	<0.5	<0.5	<0.5	<0.5
4-Chlorotoluene	~	~	~	2,158.0	178.0	70.0	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-Chloropropane	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
1,2-Dibromoethane	11.0	0.30	~	~	~	~	<0.50uj	<0.50uj	<0.50uj	<0.50
Dibromomethane	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
1.2-Dichlorobenzene	50.000	5.100	170.000	50.000.0	5,579.0	230.0	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	50,000	4,300	26,000	1,428.0	119.0	220.0	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	3,400	1,400	26,000	3,585.0	1,489.0	94.0	<0.5	<0.5	<0.5	<0.5
trans-1,4-Dichloro-2-Butene	~	~	~	~	~	~	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	1,200	91.0	~	1,240.0	101.0	10,000.0	<0.5	<0.5	<0.5	<0.5
1.1-Dichloroethane	41,000	3.000	~	9.452.0	762.0	4,100.0	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	68.0	6.5	2,970	63.0	6.0	2,967.0	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethylene	920	190	96.0	1,464.0	117.0	2,100.0	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethylene	11,000	830	~	11,472.0	928.0	6,200.0	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethylene	13,000	1,000	~	6,673.0	536.0	5,600.0	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	58.0	7.4	~	110.0	8.5	2,195.0	<0.5	<0.5	<0.5	<0.5
1,3-Dichloropropane	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
2,2-Dichloropropane	~	~	~	~	~	~	<0.5uj	<0.5uj	<0.5uj	<0.5
1,1-Dichloropropene	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	360	11.0	34,000	243.0	5.0	17.0	<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	360	11.0	34,000	243.0	5.0	17.0	<0.50	<0.50	<0.50	<0.50
Diethyl Ether	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
Diisopropyl Ether	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
1,4-Dioxane	~	~	~	~	~	~	<50.0uj	<50.0uj	<50.0uj	<50.0
Ethyl Benzene	36,000	2,700	580,000	21,915.0	1,763.0	610.0	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	~	~	~	~	~	~	<0.4uj	<0.4uj	<0.4uj	<0.4
2-Hexanone	~	~	~	~	~	~	<2.0	<2.0	<2.0	<2.0

Table 5 **Summary of Groundwater Sample Analytical Results 80 Hastings Street** Bridgeport, CT **AECOM Environment**

		Existing CT RSRs			Revised CT RSRs			SAMPLING	LOCATION	
Parameter	I/C VC	RES VC	SWPC	I/C VC	RES VC	SWPC	ЕВ	MW-1	MW-1 DUP	TRIP BLANK
Sampling Date							1/6/09	1/6/09	1/6/09	1/6/09
Sample Depth							NA	NA	NA	NA
Laboratory Report Number							LIMT-22446	LIMT-22446	LIMT-22446	LIMT-22446
Isopropylbenzene	6,800	2,800	~	2,193.0	898.0	210.0	<0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene	22,000	1,600	~	~	~	165.0	<0.5	<0.5	<0.5	<0.5
MTBE	50,000	21,000	~	50,000.0	22,013.0	10,000.0	<0.5	<0.5	<0.5	<0.5
Methylene Chloride	2,200	160	48,000	2,171.0	159.0	10,000.0	<1.0	<1.0	<1.0	<1.0
MIBK	50,000	13,000	~	50,000.0	50,000.0	10,000.0	<2.0	<2.0	<2.0	<2.0
Naphthalene	~	~	~	~	~	~	<0.5uj	<0.5uj	<0.5uj	<0.5
n-Propylbenzene	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
Styrene	42,000	3,100	~	42,853.0	3,473.0	240.0	<0.5	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	64.0	2.0	~	148.0	4.0	850.0	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	54.0	1.8	110	39.0	1.4	324.0	< 0.50	< 0.50	<0.50	<0.50
Tetrachloroethylene	810	340	88.0	200.0	82.0	504.0	<0.5	<0.5	<0.5	<0.5
Tetrahydrofuran	~	~	~	5,722.0	493.0	10,000.0	<5.0	<5.0	<5.0	<5.0
Toluene	41,000	7,100	4,000,000	41,584.0	5,876.0	620.0	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	~	~	~	1,546.0	122.0	50.0	<0.5uj	<0.5uj	<0.5uj	<0.5
1,3,5-Trichlorobenzene	~	~	~	~	~	~	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	16,000	6,500	62,000	20,439.0	2,541.0	760.0	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	2,900	220	1,260	126.0	10.7	1,263.0	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	67.0	27.0	2,340	63.0	26.0	343.0	<0.5	1.3	1.1	<0.5
Trichlorofluoromethane	4,200	1,300	~	4,263.0	1,739.0	10,000.0	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	~	~	~	812.0	331.0	10,000.0	<0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	4,800	360	~	1,485.0	122.0	160.0	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	3,900	280	~	1,167.0	96.0	260.0	<0.5	<0.5	<0.5	<0.5
Vinyl Chloride	52.0	1.6	15,800	24.4	0.6	385.0	<0.5	<0.5	<0.5	<0.5
m + p Xylene	48,000	8,700	~	25,558.0	2,052.0	270.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	48,000	8,700	~	25,558.0	2,052.0	270.0	<0.5	<0.5	<0.5	<0.5
etph water (mg/l)										
Extractable TPH (ETPH)	~	~	~	~	~	~	<0.075	0.831	0.904	NT
cyanide-total (mg/l)										
Cyanide	~	~	0.052	~	~	0.052	0.013	0.197*	0.214*	NT

Notes:

- 1. NT = Not Tested
- 2. ~ = No Standard available
- 3. A bold outlined cell indicates that the minumum laboratory reporting limit exceeds one or more of the regulatory criteria.
- 4. A shaded cell indicates value is in exceedence of a CT Remediation Standard Regulation. Specific exceedences are indicated as follows:
- + Value exceeds Volatilization Criteria
- * Value exceeds Surface Water Protection Criteria
- RSR criteria are in same units as analyte.
 Results are only compared to existing CT RSRs. No exceedances to revised CT RSRs are called out. Revised CT RSRs shown for informational purposes only. A summary of exceedance changes due to the revised RSRs is provided in Table 7.

 7. j=concentration is an estimate
- 8. uj=reporting limit is an estimate
- 9. u= nondetected at the concentration reported

Phase III ESA REPORT

Former Progressive Plating Technologies 80 Hastings Street, Bridgeport, CT AECOM Environment

Report #	Qualified Sample(s)	Matrix	Description	Qualification
22296	SB-15	Soil	RPD >40% between two columns for Aroclor-1254. Precision is not acceptable.	Qualify as estimated detected result (J).
22296	SB-13, SB-13DUP SB-33	Soil	All VOC results are presented on a wet weight basis because no sample was provided for percent solids analysis. Results presented are biased low.	Qualify as estimated positive and nondetected results (J and UJ, respectively) for all compounds.
22296	SB-13, SB-13DUP SB-33	Soil	ICV and/or CCV did not meet method specifications. Acetone, tert-butyl alcohol, 2-butanone, tertahydrofuran, and 1,4-dioxane were calibrated with a relative response factor <0.05. Results may be biased low and there is possibility of false negatives.	Qualify as estimated positive and nondetected results (J and UJ, respectively) for these compounds.
22296	SB-13, SB-13DUP SB-33	Soil	CCV did not meet % D criteria for acetone, dichlorodifluoromethane, and tert-butyl alcohol. The bias is indeterminate.	Qualify as estimated positive and nondetected results (J and UJ, respectively) for these compounds.
22296	SB-13, SB-13DUP SB-33	Soil	The LCS and/or LCSD recoveries for 2,2-dichloropropane and trans-1,4-dichloro-2-butene were below criteria. Results may be biased low.	Qualify as estimated positive and nondetected results (J and UJ,

Table lists all samples and their respective reports that required qualification. Abbreviated terms are defined below:

CCV = continuing calibration verification;

EB= analyte was detected in the associated equipment blank and there is an indeterminate amount of error in the result presented

ICS= Interference Check Standard

ICV = initial calibration verification

J = concentration is an estimate

UJ =reporting limit is an estimate

LCS = Laboratory Control Spike

MS/MSD = Matrix Spike, Matrix Spike Duplicate

RPD = Relative Percent Difference

X:\60045450 (80 Hastings, Bridgeport)\500 Submittals\503 Phase III ESA\Table 6 Data Qualifications.doc

Phase III ESA REPORT

Former Progressive Plating Technologies 80 Hastings Street, Bridgeport, CT AECOM Environment

Report #	Qualified Sample(s)	Matrix	Description	Qualification
				respectively) for these compounds.
22296	SB-13, SB-13DUP	Soil	The RPD for trichloroethene in the field duplicate pair was above criteria. Precision is below criteria. The direction of bias is indeterminate.	Qualify as estimated positive results (J and UJ, respectively) for this compound in both samples.
22296	SB-16 SB-30 SB-32	Soil	ETPH was detected in the associated equipment blank at a concentration of 0.108 mg/L. Results may be biased high.	Qualify the ETPH results in all samples "EB."
22296	SB-16	Soil	RPDs between field duplicates for chromium and lead were above the 50% criteria (94 and 57%, respectively). Precision is below criteria. The direction of bias is indeterminate.	Qualify positive and nondetected results for these elements as estimated (J and UJ, respectively)
22297	SB-16DUP	Soil	RPDs between field duplicates for chromium and lead were above the 50% criteria (94 and 57%, respectively). Precision is below criteria. The direction of bias is	Qualify positive and nondetected results for these elements as

Table lists all samples and their respective reports that required qualification. Abbreviated terms are defined below:

CCV = continuing calibration verification;

EB= analyte was detected in the associated equipment blank and there is an indeterminate amount of error in the result presented

ICS= Interference Check Standard

ICV = initial calibration verification

J = concentration is an estimate

UJ =reporting limit is an estimate

LCS = Laboratory Control Spike

MS/MSD = Matrix Spike, Matrix Spike Duplicate

Phase III ESA REPORT

Former Progressive Plating Technologies 80 Hastings Street, Bridgeport, CT AECOM Environment

Report #	Qualified Sample(s)	Matrix	Description	Qualification
			indeterminate.	estimated (J and UJ, respectively)
22297	ЕВ	Aqueous	ICV and/or CCV did not meet method specifications. Compounds tert-butyl alcohol, 1,4-dioxane, and 1,2-dibromo-3-chloropropane were calibrated with a relative response factor <0.05. Results may be biased low and there is possibility of false negatives.	Qualify as estimated positive and nondetected results (J and UJ, respectively) for these compounds.
22297	EB	Aqueous	The LCS recovery for bromomethane is below criteria. Result may be biased low.	Qualify as estimated the nondetected result (UJ) for this compound.
22297	SB-32DUP	Soil	ETPH was detected in the associated equipment blank at a concentration of 0.108 mg/L. Results may be biased high.	Qualify the ETPH results in all samples "EB."
22477	SB-16 SB-16DUP	Soil	Although MSD recovery is below criteria, the concentration of the spike is not 4x the native concentration and the pH and ORP indicate reducing conditions in the soil matrix for both samples.	No action.

Table lists all samples and their respective reports that required qualification. Abbreviated terms are defined below:

CCV = continuing calibration verification;

EB= analyte was detected in the associated equipment blank and there is an indeterminate amount of error in the result presented

ICS= Interference Check Standard

ICV = initial calibration verification

J = concentration is an estimate

UJ =reporting limit is an estimate

LCS = Laboratory Control Spike

MS/MSD = Matrix Spike, Matrix Spike Duplicate

Phase III ESA REPORT

Former Progressive Plating Technologies 80 Hastings Street, Bridgeport, CT AECOM Environment

Report #	Qualified Sample(s)	Matrix	Description	Qualification
22477	SB-12	Soil	ETPH was detected in the associated equipment blank at a concentration of 0.108 mg/L. Results may be biased high.	Qualify the ETPH results in all samples "EB."
22446	EB MW-1 MW-1DUP	Aqueous	ICS below criteria for selenium. Results may be biased low.	Qualify as estimated positive and nondetected results (J and UJ, respectively) for this element.
22446	EB MW-1 MW-1DUP	Aqueous	ICV and/or CCV did not meet method specifications. Compounds 1,2,4-trichlorobenzene, hexachlorobutadiene, naphthalene, and 1,4-dioxane were calibrated with a relative response factor <0.05. Results may be biased low and there is possibility of false negatives.	Qualify as estimated positive and nondetected results (J and UJ, respectively) for these compounds.
22446	EB MW-1 MW-1DUP	Aqueous	CCV did not meet % D criteria for bromomethane, acetone, tert-butyl alcohol, and 2,2-dichloropropane. The bias is indeterminate.	Qualify as estimated positive and nondetected results (J and UJ,

Table lists all samples and their respective reports that required qualification. Abbreviated terms are defined below:

CCV = continuing calibration verification;

EB= analyte was detected in the associated equipment blank and there is an indeterminate amount of error in the result presented

ICS= Interference Check Standard

ICV = initial calibration verification

J = concentration is an estimate

UJ =reporting limit is an estimate

LCS = Laboratory Control Spike

MS/MSD = Matrix Spike, Matrix Spike Duplicate

Phase III ESA REPORT

Former Progressive Plating Technologies 80 Hastings Street, Bridgeport, CT AECOM Environment

Report #	Qualified Sample(s)	Matrix	Description	Qualification
				respectively) for these compounds.
22446	MW-1DUP	Aqueous	CCV did not meet % D criteria for chloromethane. The bias is indeterminate.	Qualify as estimated positive and nondetected results (J and UJ, respectively) for this compound.
22446	EB MW-1 MW-1DUP	Aqueous	LCS recovery was below criteria for chloromethane and 1,2,4-trichlorobenzene. Results may be biased low.	Qualify as estimated positive and nondetected results (J and UJ, respectively) for these compounds.
22446	MW-1 MW-1DUP	Aqueous	Chloroform was detected in the method blanks, equipment blank, and trip blank at concentrations of 1.18, 9.0, and 4.2 ug/L. Results may be biased high and the potential for false positive exists.	Quality the positive results in these samples as nondetected (U) at the concentration reported.

Table lists all samples and their respective reports that required qualification. Abbreviated terms are defined below:

CCV = continuing calibration verification;

EB= analyte was detected in the associated equipment blank and there is an indeterminate amount of error in the result presented

ICS= Interference Check Standard

ICV = initial calibration verification

J = concentration is an estimate

UJ =reporting limit is an estimate

LCS = Laboratory Control Spike

MS/MSD = Matrix Spike, Matrix Spike Duplicate

Phase II Concrete Chip Exceedances

	CC-1 (Concrete) (Floor Slab)					
Depth Interval	Existing CT RSR	Revised CT RSR	Parameter			
(ft bgs)	Exceedance	Exceedance				
	RES DEC	RES DEC	arsenic cadmium nickel			
	I/C DEC	I/C DEC	arsenic			
0 - 0.5	NE	I/C DEC	nickel			
	NE	GB PMC	arsenic			
	See Note 2		Arsenic exceeded revised RCRA 8 TCLP disposal criteria.			

Samples tested using TCLP to evalute disposal issues. Results not compared to GB PMC for this media.

CC-2 (Concrete) (Concrete Platform)					
Depth Interval	Existing CT RSR	Revised CT RSR	Parameter		
(ft bgs)	Exceedance	Exceedance			
			arsenic		
	RES DEC	RES DEC	cadmium		
	KES DEC	RESIDEC	copper		
			nickel		
0 - 0.5	I/C DEC	I/C DEC	arsenic		
0 0.0	#O DEO		nickel		
	NE	I/C DEC	cadmium		
			Arsenic exceeded		
	See Note 2		revised RCRA 8 TCLP		
			disposal criteria.		

Note: 1. GB classified groundwater.

Samples tested using TCLP to evalute disposal issues. Results not compared to GB PMC for this media.

	CC-3 (Concrete) (Floor Slab)					
Depth Interval		Revised CT RSR	Parameter			
(ft bgs)	Exceedance	Exceedance				
	RES DEC	RES DEC	arsenic cadmium lead hexavalent chromium nickel			
	I/C DEC	I/C DEC	arsenic hexavalent chromium nickel			
0 - 0.5	RES DEC	NE	trivalent chromium			
0 0.0	NE	RES DEC	copper			
	NE	I/C DEC	cadmium			
	See	Note 2	Cadmium and chromium exceeded existing and revised RCRA 8 TCLP disposal criteria. Arsenic exceeded revised RCRA 8 TCLP disposal criteria.			
Note: 4 OB:	localitied aroundurat		disposar criteria.			

Note: 1. GB classified groundwater.
2. Samples tested using TCLP to evalute disposal issues. Results not compared to GB PMC for this media.

Notes:

- NE = No Exceedance Under RSR Regime
 ~ = No Standard Available Under RSR Regime

Phase II Soil Boring Exceedances

COMP-1 (Soil) (Composite Sample from SB-4, SB-5, and SB-9)						
Depth Interval	Existing CT RSR	Revised CT RSR	Parameter			
(ft bgs)	Exceedance	Exceedance				
0 - 2	RES DEC	RES DEC	arsenic * cadmium * chromium * lead * thallium *			
	I/C DEC	I/C DEC	arsenic * chromium *			
	NE	RES DEC	cadmium nickel			

Note: * No analytes exceeded the existing

DEC. However, other analytes are listed since an individual soil comprising a part of the composite may have an exceedance which may have been diluted in the composite.

COMI	COMP-2 (Soil) (Composite Sample from SB-6, SB-7, and SB-8)						
Depth Interval	Existing CT RSR	Revised CT RSR	Parameter				
(ft bgs)	Exceedance	Exceedance					
			cadmium *				
	RES DEC	RES DEC	chromium *				
			thallium *				
0 - 2	RES DEC	RES DEC	arsenic				
0-2	I/C DEC	I/C DEC	chromium *				
	I/C DEC	I/C DEC	arsenic				
	NE	RES DEC	cadmium nickel				

* No analytes exceeded the existing DEC. However, other analytes are listed since an individual soil comprising a part of the composite may have an exceedance which may have been diluted in the composite.

		SB-01 (Soil)	
Depth Interval	Existing CT RSR	Revised CT RSR	Parameter
(ft bgs)	Exceedance	Exceedance	
	RES DEC	RES DEC	lead
	I/C DEC	I/C DEC	lead
1 - 3	RES DEC	~	ETPH
1-3	NE	RES DEC	cadmium nickel
	NE	GM PMC	copper

		SB-02 (Soil)	
Depth Interval	Existing CT RSR	Revised CT RSR	Parameter
(ft bgs)	Exceedance	Exceedance	
1 - 2	RES DEC	RES DEC	arsenic
1 - 2	I/C DEC	I/C DEC	arsenic

- No Exceedance Under RSR Regime
 ~ = No Standard Available Under RSR Regime

		SB-05B (Soil)	
Depth Interval	Existing CT RSR	Revised CT RSR	Parameter
(ft bgs)	Exceedance	Exceedance	
	RES DEC	RES DEC	arsenic
	KES DEC	KES DEC	cadmium
	I/C DEC	I/C DEC	arsenic
2 - 4	GB PMC	GB PMC	SPLP cadmium
2 - 4	NE	RES DEC	nickel
	RES DEC	~	chromium
	NE	I/C DEC	cadmium
	I/C DEC	~	chromium

SB-06B (Soil)							
Depth Interval	Existing CT RSR	Revised CT RSR	Parameter				
(ft bgs)	Exceedance	Exceedance					
	RES DEC	RES DEC	arsenic				
	KES DEC	KES DEC	cadmium				
	I/C DEC	I/C DEC	arsenic				
6 - 8	NE	RES DEC	nickel				
	RES DEC	~	chromium				
	NE	I/C DEC	cadmium				
	I/C DEC	~	chromium				

SB-09B (Soil)						
Depth Interval Existing CT RSR Revised CT RSR Parameter (ft bgs) Exceedance Exceedance						
2 - 4	NE	RES DEC	cadmium nickel			

Phase III Soil Boring Exceedances

SB-16 (Soil)						
Depth Interval	Parameter					
(ft bgs)	Exceedance	Exceedance				
	RES DEC	RES DEC	Arsenic			
0.5-1.7	I/C DEC	I/C DEC	Arsenic			
0.3-1.7	NE	RES DEC	Cadmium			
	IVL	KL3 DLC	Nickel			

SB-28 (Soil)									
Depth Interval	Depth Interval Existing CT RSR Revised CT RSR Parameter								
(ft bgs)	Exceedance	Exceedance							
0.5-1.25	RES DEC	RES DEC	Arsenic						
0.3-1.23	I/C DEC	I/C DEC	Arsenic						

SB-32 (Soil)						
Depth Interval	Existing CT RSR	Revised CT RSR	Parameter			
(ft bgs)	Exceedance	Exceedance				
	RES DEC	RES DEC	Lead			
1-2.7	RES DEC	~	ETPH			
	GB PMC	NE	SPLP Lead			

- Notes:

 1. NE = No Exceedance Under RSR Regime
 2. ~= No Standard Available Under RSR Regime

Phase III Groundwater Exceedances

MW-1						
Existing CT RSR	Revised CT RSR	Parameter				
Exceedance	Exceedance					
		Cadmium				
	SWPC	Copper				
SWPC		Lead				
		Zinc				
		SPLP Total Cyanide				
NE SWPC		Nickel				
Note: 1. GB class	ified groundwater.					

MW-1 DUP						
Original CT RSR	Revised CT RSR	Parameter				
Exceedance	Exceedance					
SWPC	SWPC	Cadmium Copper Lead Zinc				
NE SWPC		Nickel				
Note: 1. GB class	ified groundwater.					

Notes:

- 1. NE = No Exceedance Under RSR Regime
- 2. ~ = No Standard Available Under RSR Regime

Table 8 Status of Recognized Environmental Conditions 80 Hastings Street Bridgeport, CT AECOM Environment

				_		
REC#	Description- Potential Source and Contaminants of Concern	Has this REC been investigated?	Phase II Findings	Phase III Findings	Confimed Contaminants of Concern	Conclusions- General Recommendations
	Soil – Subsurface soils due to cyanide and/or other metals and petroleum contamination from historic metal plating operations, spills, and/or seepage from floor drains or compromised sub-grade structures.	Yes	Cd exceeds GB PMC and RES DEC, As exceeds I/C DEC in at least one soil sample. Cr,Pb, and Tl may exceed DEC in composited samples.	As exceedances were discovered inside and outside the building. 95% UCL calculations for As were	Arsenic Cadmium Chromium Thallium Lead	Soil with metal exceedances under the building floor is isolated from direct contact and from water infiltration by the building slab foundation. Based on the 95% UCL calculation for As, soil under the paved parking area does not exceed current CTRSRs for As.
	Potential urban fill - Potential historic fill may be present.	Yes	Ash, cinders, and brick fragments were found in soil borings. As was detected in all soil samples analyzed for As and exceeded DEC in 4 samples. PAHs were detected in one composite soil sample but did not exceed DEC	As was detected in most samples and exceeded the CTRSRs in several. 95% UCL calculations for As were conducted on samples from the paved parking area.	Arsenic	Soil with metal exceedances under the building floor is isolated from direct contact and from water infiltration by the building slab foundation. Based on the 95% UCL calculation for As, soil under the paved parking area does not exceed current CTRSRs for As.
	Site-wide Groundwater – Cyanide and/or other metals and petroleum contamination from historic metal plating operations and/or seepage from floor drains or compromised sub-grade structures.	Yes	The groundwater sample collected from beneath the center of the building contained arsenic, cadmium, chromium (potentially if it is hexavalent chromium), copper, lead, zinc, and cyanide at concentrations in exceedance of the CTRSR SWPC. No VOCs were detected in the groundwater sample.	Although four more wells were installed at the site, it was not possible to collect any water from them during sampling activities. MW-1 was the only well sampled and again several metals were in exceedance of the SWPC. Groundwater does not appear to migrage off site.	Cadmium Copper Lead Zinc Cyanide	The only sampleable groundwater exists at MW-1 which may be located in a man-made bedrock depression. Dewatering and isolation of the area could be performed to remediate this groundwater. Post remediation monitoring should be performed to ensure no off-site migration is occuring.
	Off-Site Groundwater – Potential contamination in off-site groundwater from neighboring industrial/commercial properties that flows onto this property.	No	Not applicable	Groundwater does not appear to flow onto the site from off-site AOCs, no further evaluation of this REC is required.		Off-site groundwater does not seem to be affecting the site.
	Residual petroleum – Possible hydraulic oil in lifts in loading docks and observed oil spills in the building.	No	Staining was observed and it's location was identified.	Staining was observed and it's location was identified. This REC will be addressed during remediation and site redevelopment. Hydraulic oil in lifts will be addressed during site redevelopment.		Residual petroleum will require further characterization and appropriate disposal during site redevelopment.
	Residual chemicals – Solids – cyanide and/or other metals, precipitates and filter cake on the main production floor. Liquids - acidic and/or basic solutions and metals solutions in the floor trenches. Desiccated sludge in the sludge holding tank. Additional residual chemicals may be present in equipment remaining on site, and in the laboratory.	Partially	Residual chemicals were observed and their location was identified.	Residual chemicals were observed and their location was identified.		Residual chemicals - solids - will require further characterization and appropriate disposal during site redevelopment.
	PCBs – Possible PCBs related to hydraulic lifts, the former transformers, and light ballasts in the southern storage room and eastern office areas.	Partially	Not applicable	No PCBs were detected in soil samples collected near the former transformers and lifts.		Light ballasts in the southern storage room and eastern office areas require appropriate disposal during redevelopment.
	Lead-Based Paint (LBP) – Potential LBP observed on steel beams and in boiler room, due to age of facility.	Yes	Several lead-based paint containing building materials were identified via XRF field screening.	Chip samples were collected and submitted for TCLP lead analysis. All results were below the EPA limit.	Lead	Appropriate LBP abatement and disposal will be required during redeveloplment.
	Asbestos Containing Materials (ACM) – Potential asbestos in the ovens on site, in the boiler room, and in floor and ceiling tiles in the laboratory and offices.	Yes	Several different types of asbestos-containing materials are present in the building at several locations.	Additional sampling and analysis of asbestos- containing materials was performed to refine the quantities of interior and exterior ACM.	Asbestos	ACM must be removed during demolition and redevelopment activities.
	Freon – Potential freon remaining in window air conditioner units in the office areas.	No	Not applicable	Not applicable		This REC will be addressed during site redevelopment. Air conditioning units can be disposed of conventionally.

Table 8 Status of Recognized Environmental Conditions 80 Hastings Street Bridgeport, CT AECOM Environment

REC#	Description- Potential Source and Contaminants of Concern	Has this REC been investigated?	Phase II Findings	Phase III Findings	Confimed Contaminants of Concern	Conclusions- General Recommendations
	Mold – Mold may be present on the building interior since the interior of the building is exposed to the elements.	No	Not applicable	Not applicable		This REC will be addressed during site redevelopment. Mold can be addressed conventionally.
	Vault Structure – Potential soil and/or groundwater contamination in the vicinity of the concrete vault structure of unknown use located in the southern portion of the parking lot.	Yes	ETPH was detected in exceedance of the RES DEC and lead was detected in exceedance of I/C DEC, various other metals were detected.	ETPH and lead were again detected in exceedance of the CTRSRs.	ETPH Lead	This area could be remediated by excavation and off- site disposal.
	potentially containing PAHs, is present on the building interior from the January 2008 fire at the site.	No	Fire damage including smoke staining was documented.	Fire damage including smoke staining was documented.		This REC will be addressed during site redevelopment. A separate QAPP Addendum will be submitted to EPA prior to any additional sampling of this REC. Smoke damage can be addressed conventionally.
	Impacted Concrete - Concrete floor slabs may be contaminated due to historic spills.	Yes	Analysis of concrete samples showed RES and/ or I/C DEC exceedances for As, Cd, Ni, Pb, and hexavalent chromium.		Arsenic Cadmium Chromium Lead Copper Nickel	This REC will be addressed during site redevelopment. Concrete from the former plating section of the building could be remediated by pouring a new slab on top of the existing slab.
	Loading Docks - Loading dock areas may represent potential sources of contamination due to historic spills.		A release of contaminants associated with site operations does not appear to have occurred. However, arsenic was detected above CTRSR RES and I/C DEC in one soil sample, potentially related to urban fill materials.	No additional soil exceedances were found in the loading dock area although there was visual evidence of potential petroleum staining on the southernmost lift.	Arsenic	The arsenic exceedance was included in the 95% UCL calculation and was less than 2x the DEC. Arsenic is therefore not considered to be in exceedance of the CTRSRs. Potential petroleum impacts due to the lifts will be further evaluated during site redevelopment activities.
	Chemical storage areas may represent potential sources of	Chemical Storage	Cyanide concentration was found to exceed SWPC in groundwater sampled at MW-1 (approximately 40 feet from REC), but was not in exceedance of RES DEC in soil boring performed at this REC.		Cadmium Copper Lead Zinc Cyanide	Based on Phase II and III results, the cyanide storage area does not appear to be an on-going source of contamination. The cyanide and metals in groundwater around MW-1 are potentially due to a different release pathway (i.e. sump / floor crack). The area could be dewatered and isolated to prevent migration of any metals away from the MW-1 area.
	Tool Room - Chemicals may have been stored or used in the tool room.	Yes	Not applicable	A soil boring was performed in this area (SB-33). No VOCs were detected.		The floor appears to be intact and a release has not been identified.
	Subsurface Drainage Structures - Subsurface drainage structures, some potentially related to the municipal sanitary sewer system, may be present and contain residual chemicals.	No	Impacts to site wide ground water or soil are discussed elsewhere.	Impacts to site wide ground water or soil are discussed elsewhere.		Subsurface drainage structures will either be cleaned, assessed, and sealed or removed during site redevelopment.

GB PMC - Groundwater classification area B Pollutant Mobility Criteria

RES DEC - Residential Direct Exposure Criteria

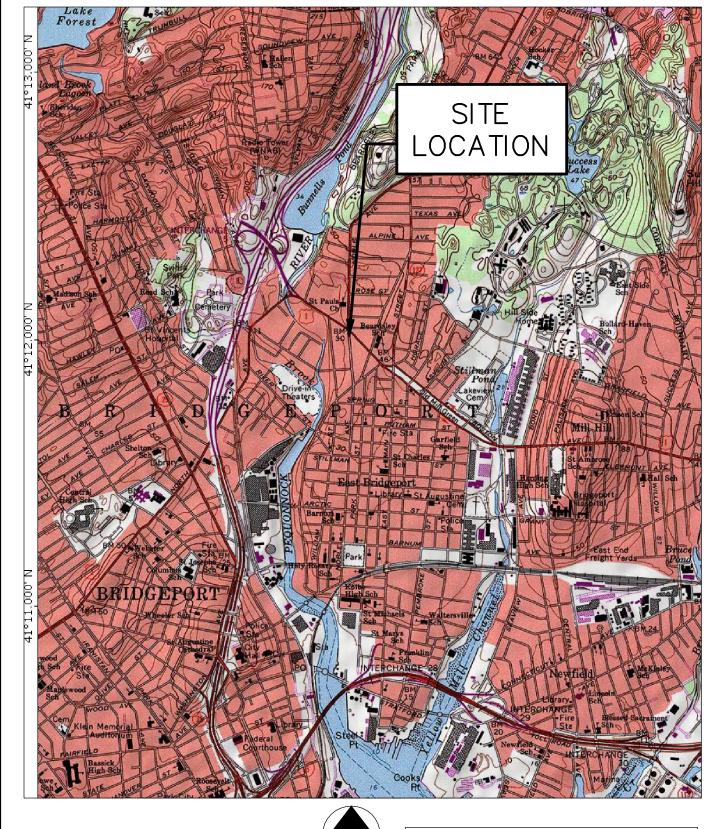
I/C DEC - Industrial / Commercial Direct Exposure Criteria
UCL - Upper Confidence Interval
CTRSRs - Connecticut Remediation Standard Regulations

PAHs - Polycyclic Aromatic Hydrocarbons SWPC - Surface Water Protection Criteria VOCs - Volatile Organic Compounds

AOCs - Areas of Concern

PCBs - Polychlorinated Biphenyls

ANSI A - 3-8-05



SOURCE:

U.S.G.S. TOPOGRAPHIC MAPS BRIDGEPORT, CT QUADRANGLE,

MAP VERSION: 1984, CURRENT AS OF 1982

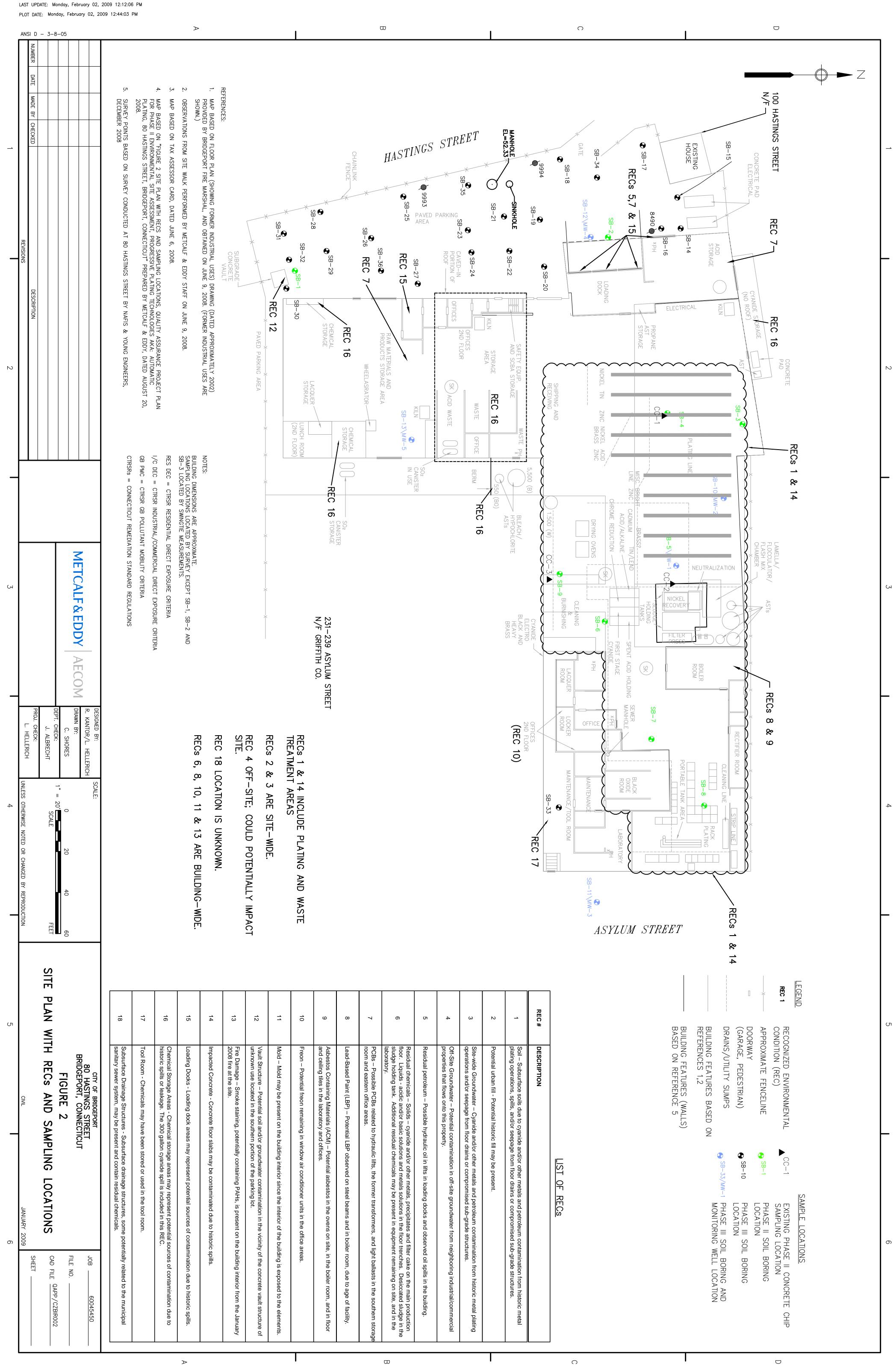


1000 FEET

METCALF & EDDY | AECOM

FIGURE 1
SITE LOCATION MAP
80 HASTINGS STREET
BRIDGEPORT, CONNECTICUT

DATE: JAN. 2009



 \triangleright

 ϖ

 \circ

 \bigcup

 \triangleright

 \Box

 \circ

 \bigcup

Met	calf & E	<u>ddy, In</u>			GEOLOGIC LOG			1
			ENGINEER	s		METCALF &	& EDDY	AECOM
					12/27			
PROJE	CT:	30 Hastings	Street Bridgepor	rt, CT Phase	I/II/III Environmental Assessment	SH	EET	BORING NO.
SHE	LOCATION:				JOB NO.: # 60045450.04		1 of 1	SB-10 M
		Bridgepo	п, С1		LOCATION:	Ele	vation:	Total Depth:
DRILL	CONTRAC	TOR ·	Glacier Drillin		N: E: ENG/GEO: Seremet/Kantor Shares			3'
DRILL		Geoprobe	54LT	<u> </u>			GUN:	
	ize: 2		1117 .1			FIN Ground Water (Dept	VISHED :	
				20/2 50	' ^{ለ/} አ			
Drilling	g Method:	Direct pu	sh		Drilling Fluid : None	Top of Rock (Depth	Ælev.):	<u> </u>
			Blow Count	Sample			<u> </u>	<u></u>
Depth	Sample	PID	(per 6 in.)	Recover	SAMPLE DESCRIPTION	٧	STE	RATIGRAPHIO
	Type/No.	(ppm)	or Drilling	or REC &				ESCRIPTION
		 	Rate(min/ft)	RQD	NOTE: Depths read from top of recovered san	nple		
	06			23.400	concrete			
	06 - G11=				NOTE: Depths read from top of recovered san read Con cre re Ly 6 ran 1 - (sond con fee	were dunk	. /	2
		1			fr 1000	-rock(
						3		
	11-13"				black m soud rucks			:
	13-21				Brown V. Fire sandle: 1+			
T	21-27				R.c 4			
					100 4			
-							_	
Н							.	
					net p 16"			- "
	,7							
H						-		
					: 			
					Well willed MW-Z			<u> </u>
		· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · ·
للل								1
	E TYPES:			SPT Resist				Approved/Date
	T SPOON		Few 5 to 10%	Cohesionle	ss Density: 0-4 V. Loose Cohesive	Consistency: 0-2	V. Soft	-ppro row Date
	LBY TUBE		Little 15 to 25%	5-9 Loose	10-29 Med. Dense 3-4 Sc	oft, 5-8 M/Stiff, 9-1	5 Stiff	
	CORE		Some 30 to 45%	30-49 Dens		V. Stiff, 31+ Har		
FORN	AS\Field Form	ns\[SBlogs	DS.xls]Boring L	Dg				

Me	<u>tcalf & E</u>	<u>ddy, Ir</u>	ıc.		GEOLOG	GIC LOG			
			ENGINEER:	S			METO	CALF&EI	DDY AECOM
PROJ	ECT :	80 Hasting	s Street Bridgepor	t, CT Phase	I/II/III Environ	mental Assessment		SHEET	BORING NO.
SITE	LOCATION:				JOB NO.: #	60045450.04		1 of	1 5771
		Bridgep			LOCATION: N: E:			Elevation	•
DRIL	L CONTRAC		Glacier Drilling	3		Seremet/Kantor (how	es	BEGUN	
Hole	L RIG:	Geoprob	e 54LT		DRILLER:	3057	11-	FINISH	
	Size : γ^{-3}		Weather: 2	0)	sunny		Ground Wat		
	ig Method :	Direct p		,	Drilling Flujd : None		Top of Rock	(Depth/Elev	(·):
Depth	Sample Type/No.	PID (ppm)	Blow Count (per 6 in.) or Drilling Rate(min/ft)	Sample Recovery or REC & RQD		SAMPLE DESC	CRIPTION		STRATIGRAPHIC DESCRIPTION
	2-62		·						-
	2-62			6" r	llovey	n-bransa	1 rock o	botton	
					refusel	P 1.5'			
					علجے	\$54/			
					,	· · · · · · · · · · · · · · · · · · ·			
									j.
					1100				
+									
F					- /-				
					44	1. stelled A	211/2)		
L									
-									
SANGE	E TVDDO		III			• .			
	E TYPES: LIT SPOON			SPT Resis		1 37 Y	la i = ""		Approved/Date
	ELBY TUBE		Little 15 to 25%	Conesionle	ss Density: 0-4	V. Loose	Cohesive Consistence		
	K CORE		Some 30 to 45%	30-49 Dens	se 50+V. Der	. Dense ise	3-4 Soft, 5-8 M/S		1111

Met	calf & E	<u>ddy, Ir</u>			GEOLOGIC LOG			
			ENGINEER	S		METCA	LF & EDDY	/ AECOM
PROJ	ECT: 8	30 Hasting	s Street Bridgepor	rt, CT Phase	I/II/III Environmental Assessment		SHEET	BORING NO.
SITE	LOCATION:	80 Hasti	ngs Street		JOB NO.: # 60045450.04		1 of 1	513-114
		Bridgepo	ort, CT		LOCATION: Elevi			Total Depth:
DRIL	L CONTRAC		Glacier Drillin	g	ENG/GEO: Seremet/Kantor Story		BEGUN:	<u> </u>
DRIL	L RIG:	Geoprob			DRILLER: 3mg		FINISHED:	
Hole S	V		Weather:		Drilling Fluid	Ground Water (
Drillin	g Method:	Direct pu	ısh		Drilling Fluid : None	Top of Rock (D	epth/Elev.):	2.5
		1	Blow Count	Sample			-	
Depth	Sample	PID	(per 6 in.)	Recovery	SAMPLE DESCRI	IPTION	ST	RATIGRAPHIC
1	Type/No.	(ppm)	or Drilling	or REC &				ESCRIPTION
			Rate(min/ft)	RQD	NOTE: Depths read from top of recover	red sample		
				15-1				
			_					
	7-15	<u> </u>			Millin sand ws	anis		
	7-15				Min sand, arg	lec		
						7		
+					het 17"			
F	_							
-								
								·
-			-		the state of the s	70(00)	P	
A.								
	LE TYPES:		Trace 0 to 5%	SPT Resis			t	Approved/Date
	IT SPOON		Few 5 to 10%		ess Density: 0-4 V. Loose C	ohesive Consistency:	0-2 V. Soft	1,
	ELBY TUBE		Little 15 to 25%		10-29 Med. Dense	3-4 Soft, 5-8 M/Stiff	f, 9-15 Stiff	
<u> </u>	K CORE		Some 30 to 45%	30-49 Den	se 50+ V. Dense	16-30 V. Stiff, 31-		

iviei	can & E	<u>aay, 11</u>			GEOLOGIC LOG			1
			ENGINEER	-		METCA	LF&EDD	Y AECOM
PROJ	ECT:	80 Hasting	s Street Bridgepor	t, CT Phase	I/II/III Environmental Assessment		SHEET	BORING NO.
SITE	LOCATION:	80 Hasti	ngs Street		JOB NO.: # 60045450.04		1 of 1	SB-11B
		Bridgep	ort, CT		LOCATION:		Elevation:	Total Depth:
DDII	CONTRAC	TOD	61 5 7		N: E: ENG/GEO: Seremet/Kantor phoe DRILLER: Jun			3.5
DRIL	L CONTRAC L RIG:		Glacier Drillin	g	ENG/GEO: Seremet/Kantor	7	BEGUN:	
Hole S	11	Geoprob	Westher.		DRILLER: Tuga		FINISHED:	
li lore s	oize: 2"		weather: 22	· 2200	_	Ground Water ((Depth/Elev.)	:
Drillin	g Method :	Direct p	uch		Drilling Flyid	T. CD 1 CD	4.701	
		T T	Blow Count	la. 1	DRILLER: Drilling Fluid: None	Top of Rock (D	epth/Elev.):	3.5
Depth	Sample	PID	(per 6 in.)	Sample Recovery	CALMY E DECC	DIDMICA		
Dopui	Type/No.	(ppm)	or Drilling	or REC &		RIPTION		RATIGRAPHIC
1	1,000,110.	(ppin)	Rate(min/ft)	RQD	NOTE: Depths read from top of recov	1	L	DESCRIPTION
	1	41	Trate(IIIIIII)	1	NOTE. Depuis read from top of recov	ered sample		
		(D)		102	Recovery			•
		1			/	.,		
	0-3=	<u> </u>	· ·		asphilt			
	3-8							
	8-18	-			m- F blicking brown	2.14		
 	10 10	<u> </u>			1 blicks sand p	THE STATE OF THE S		
					the Desire			
	·							
					uer pur			
+					7.1			
					all installed	mw-3		
						-		
_								
					•			
SAMPI	E TYPES:		Trace 0 to 5%	SPT Resis	tance		<u> </u>	Approved/Det
SS=SPI	IT SPOON			Cohesionle	ss Density: 0-4 V. Loose	Cohesive Consistency:	0-2 V Soft	Approved/Date
	ELBY TUBE		Little 15 to 25%	5-9 Loose	10-29 Med. Dense	3-4 Soft, 5-8 M/Stiff		
	K CORE		Some 30 to 45%	30-49 Dens	se 50+ V. Dense	16-30 V. Stiff, 31-		

Met	calf & E	<u>ddy, Ir</u>			GEOLOGIC LOG		·	1
			ENGINEER		12/2	METCA	LF&EDD	YAECO
PROJE	CT : {	80 Hasting	s Street Bridgepor	rt, CT Phase	I/II/III Environmental Assessment		SHEET	BORING
SITE I	OCATION:	80 Hastii	ngs Street		JOB NO.: # 60045450.04		l of l	5012
		Bridgepo	ort, CT		LOCATION:		Elevation:	Total De
DDILL	CONTRAC	TOD	01 : 5 ::::		N: E:			4.5-
DRILL	CONTRAC	Geoprob	Glacier Drillin	g	ENG/GEO: Seremet/Kantor JL .~ 3		BEGUN:	
Hole Si			Weather: 2		DRILLER: Jain		FINISHED	:
	· 1		weather: 2	05 5	VNEL	Ground Water (Depth/Elev.)	:
Drilling	Method:	Direct pu	sh	· · · · · · · · · · · · · · · · · · ·	Drilling Fluid :	- CD 1 1 (5)	<u> </u>	·
					None	Top of Rock (D	epun/Elev.):	fixe
			Blow Count	Sample`				1541
Depth	Sample	PID	(per 6 in.)	Recovery	SAMPLE DESCRI	PTION (97	ΓRATIGRA
	Type/No.	(ppm)	or Drilling	or REC &		*		DESCRIPT
	ļ	 	Rate(min/ft)	RQD	NOTE: Depths read from top of recovere	ed sample	'	- 200IQI 1
3-4 ^		$I \Omega$		334				
0-8	Ī	1 (]	ASN. 17			
		1/		 	Aspleto MBn sond, Chunkes MPin gray (but it			
(\$)					MBy SUNV, Chunkes	enireze		
<u> </u>				 	,	<u> </u>	I	
27	ļ	İ	İ	•		h .		
		ļ	ļ		MPM gray ford it	unles contre	C/A	
-/					MPrn gray sand ch			
37		1	ļ	34	1314			
\vdash		 -	 		1 sent sor			
		1]				
1-39				11				
ا ت				16 relai				
H			-			·		
>- H	sl.	4						
H	- 10	٠, ١			slows 4			
6-1				1 T		_		
<u>ا</u> ا					to Boun black sus As sample 12-	1. 14		
					/	1 3 8 / 1		
					Ac			
			 		11,2 compte 15-	24"		
			<u> </u>					
						-		
	}							
-			 					
					-			
\sqcup								
								**
				I				
-			 			· · · · · · · · · · · · · · · · · · ·		
			i	- 1				
\sqcup								
	1		ļ	j				
MPLF	TYPES:		Trace 0 to 5%	SPT Resist	9900			
	T SPOON		II IL					Approved/
	LBY TUBE		Little 15 to 25%	5-0 Loose		hesive Consistency:		
	CORE		Some 30 to 45%	30-40 Da		3-4 Soft, 5-8 M/Stiff,	9-15 Stiff	1
		150=-	DS.xls]Boring Lo	JU-TA DEIIS	C JUT V. Dense	16-30 V. Stiff, 31+	Hard	<u> </u>

Met	calf & E	ddy, In	c.		GEOLOGIC LOG			1
			ENGINEER	<u>s</u>		METCA	LF&EDD\	/ AECOM
PROJ	ECT:	80 Hastings	Street Bridgepor	t, CT Phase	e I/II/III Environmental Assessment		SHEET	BORĮNG NO.
SITE	LOCATION:	80 Hastin	gs Street	-	JOB NO.: # 60045450.04		1 of 1	51213
		Bridgepor	rt, CT		LOCATION: Eleva N: E:		Elevation:	Total Depth:
DRIL	L CONTRAC		Glacier Drillin		ENG/GEO: Seremet/Kantor Shar	~15	BEGUN:	
DRIL.	L RIG:	Geoprobe	54LT		DRILLER: Jason		FINISHED:	
	<u> </u>	·	Weather:	0, 5,	my	Ground Water (Depth/Elev.):	dri.
Drillin	g Method:	Direct pus	sh		Drilling Fluid : None	Top of Rock (Do	epth/Elev.)	dry
Depth	Sample Type/No.	PID (ppm)	Blow Count (per 6 in.)	Sample Recovery		RIPTION	ST	RATIGRAPHIC
ļ	Турслчо.	(bhiii)	or Drilling Rate(min/ft)	or REC & RQD	NOTE: Depths read from top of recov	ered sample	D	ESCRIPTION
				162	Housey	-		
	0-4-	Concr	1-e		/			
	4-10	Ó			Moransand rock	5		
	10-16=				Mornisand rock. For de brown precent stans	sand 18 ale	,	
					precent glan,	picce of coment		
-								
+		<u></u>	<u> </u>					
_					VOC + dup 1.5 in	2.5		
					well muss in	stilled		
		:						
					/			
SAMPL	E TYPES:		Trace 0 to 5%	SPT Resist	tance			A
SS=SPI	IT SPOON	j	Few 5 to 10%	Cohesionle	ss Density: 0-4 V. Loose	Cohesive Consistency:	0-2 V. Soft	Approved/Date
	ELBY TUBE		Little 15 to 25%	5-9 Loose	10-29 Med. Dense	3-4 Soft, 5-8 M/Stiff,	9-15 Stiff	
K=KOC	K CORE		Some 30 to 45%	30-49 Dens	se 50+ V. Dense	16-30 V. Stiff, 31+		

	M	<u>etcalf & F</u>	ddy, Ir			GEOLOGIC LOG		1	
				ENGINEER		(2)	METCALF&E	EDDY AEC	MOC
	PRC	JECT :	80 Hasting	s Street Bridgepo	rt, CT Phase	e I/II/III Environmental Assessment	SHEE	ET BORIN	G NO.
	SITI	E LOCATION				JOB NO.: # 60045450.04	1 c	of 1 517	14
	DRI	II CONTRA	Bridgepo			LOCATION: N: E:	Eleva	∥ 6	epth:
		LL CONTRAC LL RIG:	Geoprob	Glacier Drillin	ıg	ENG/GEO: Seremet/Kantor shires	BEGU	JN:	
				Weather:		DRILLER: 3 US 29	FINIS Ground Water (Depth/l	SHED:	
		ν			203	Suny	Olound Water (Depuly)	Elev.):	
	Drill	ing Method :	Direct pu			Drilling Fluid: Top of Rock (Depth/Elev.): None			
	Dept	th Sample	PID	Blow Count	Sample				
	Debi	Type/No.	(ppm)	(per 6 in.) or Drilling	Recovery or REC &		N	STRATIGR	
	1	1 yperito.	(ppin)	Rate(min/ft)	RQD	NOTE: Depths read from top of recovered sa	1-	DESCRIP	TION
				23440 (11112) 11)	38"	NOTE: Depuis read from top of recovered sa	mpre		
	4-		0			A. 1. 1.			
-29°	3 4		1			Asplate A-Flunson true FR. sad silt			
4 -7p	-					17- Thun sand street	rucks	 	
٠ ٦ ا					ļ	The sad silt	h et		
	۲_								
					24	(17 brown sand solt			
		0-127				Z.			
		12-24				F Bran sold Fauruc	k s		
	[6]					refuse (
*K	. [
						Pensagle 0-8=			
	ļ					PCB suple 0-8- As sumple Do	8-16		
						2 Jempin 28	0 10		
	L SAMI	LE TYPES:	<u></u>	Trace 0 to 5%	CDT D	****			
	1	PLIT SPOON			SPT Resis		un Compieta de la casa	Approve	:d/Date
		HELBY TUBE	E	Little 15 to 25%	5-9 Loose	10-29 Med. Dense 3-4.9	ve Consistency: 0-2 V. Soft, 5-8 M/Stiff, 9-15		
	R=RC	CK CORE		Some 30 to 45%	30-49 Den		0 V. Stiff, 31+ Hard	Juli	

Met	<u>calf & F</u>	<u>lddy, Ir</u>	1C.		GEOLOGIC LOG			1
			ENGINEER	s		METCA	LF&EDD\	AECOM
PROJE	ECT:	80 Hasting	s Street Bridgepor	t, CT Phase	I/II/III Environmental Assessment		SHEET	BORING NO
SITE	LOCATION	: 80 Hasti	ngs Street		JOB NO.: # 60045450.04		1 of 1	BORING NO. ょほ・ノブ
		Bridgepo	ort, CT				Elevation:	Total Depth:
DRILI	CONTRAC	CTOR:	Glacier Drillin		N: E: ENG/GEO: Seremet/Kantor 12 M		DEGVIN	<u> </u>
DRILI		Geoprob	e 5/1 T		DDILLED	2	BEGUN : FINISHED :	
Hole S	ize :		Weather: 2	2	30/	Ground Water (
D.:11:-	- 3 C d - 1			15 30	214	· ·	•	
Drillin	g Method :	Direct pu			Drilling Fluid : None	Top of Rock (De	epth/Elev.):	,
Depth	Sample	PID	Blow Count (per 6 in.)	Sample Recovery	CALOVE PEGG	ID YDDY OLY		
Jacqui.	Type/No.	(ppm)	or Drilling	or REC &	SAMPLE DESC	RIPTION	ST	RATIGRAPHIC
		41	Rate(min/ft)	RQD	NOTE: Depths read from top of recov	vered sample	l D	ESCRIPTION
				247	The second of th	ored sample		
4-		0			1 1 1.			
/		1			A pactx	·		
0		W	1,,		Asphilx Phyronn Ford It sown for Men concrete			
20-					It sown for Mer	1 sent 18 com	4	
12					lunenere	£ 10 - €, 7000		
24		1						
		1	ļ				İ	
		1						
		ĺ	ł					
	<u> </u>	<u> </u>						
	Í	ļ	İ					
-		 						
Ì				ĺ				
-		 		ļ				
- -			 					
<u> </u>								
		ĺ						
					A. 8-15"			
					PeB 0-8"	***		
\vdash					100 0-B"			
SAMPT	E TYPES:		Trace 0 to 5%	CDT D'				
	IT SPOON			SPT Resist	ss Density: 0-4 V. Loose	Cohosiva Comitation	0.2.7.0.0	Approved/Date
ST=SHE	LBY TUBE	E	Little 15 to 25%	5-9 Loose	10-29 Med. Dense	Cohesive Consistency: 0		
	K CORE		Some 30 to 45%	30-49 Dens	e 50+ V. Dense	16-30 V. Stiff, 31+		
LIFOR								

M	<u>et</u>	calf & E	<u>ddy, In</u>			GEOLOGIC LOG			/
				ENGINEER	S		METCA	LF&EDDY	AECOM
PRO)JE	ECT :	80 Hasting	s Street Bridgepo	rt, CT Phase	I/II/III Environmental Assessment		SHEET	BORING NO
SIT	Ε.	LOCATION:	80 Hastii	ngs Street		JOB NO.: # 60045450.04			BORING NO.
			Bridgepo	ort, CT		LOCATION:		Elevation:	Total Depth:
DRI	LI	CONTRAC	TOR:	Glacier Drillin	g	N: E: ENG/GEO: Seremet/Kanter Shires		BEGUN :	3,5
DRI	LL	L RIG:	Geoprob	e 54LT		DRILLER: 3659	/	FINISHED:	
Hole	e S	ize:		Weather: -	205		Ground Water (Depth/Elev.):	
Dril	lin	g Method :	Direct pu		- 03	A 1919			
	•			Blow Count	Tc1-	None	Top of Rock (De	epth/Elev.): ,	3.5
Dep	th	Sample	PID	(per 6 in.)	Sample Recovery	SAMPLE DESCRIPTION	т.	0.77	D LETCH LATER
] `		Type/No.	(ppm)	or Drilling	or REC &		•		RATIGRAPHIC ESCRIPTION
<u> </u>	т-	<u> </u>	<u> </u>	Rate(min/ft)	RQD	NOTE: Depths read from top of recovered san	ple	"	ESCRITION
I					32				
_	L				12	·			
6	1		0			Asplilt			w
	L		L N /						
12						The sond silt-lolay			
20	Г		<u> </u>	 	 	F has long come onch			
32		İ		1		Florida eitelele) *	.	
. /	r				 	7 1 7 200	Truck rocks		
۲						,			
-	Н			 	 				
	H	<u> </u>	·		<u> </u>				
	-				<u> </u>				
			ļ	1					
		}							
					ļ į				
│									
						<i>P</i> 417	_		
Į				<u> </u>		PP17 sanglad 6-20 FETTH samplar 6-20	1		
	İ					· jean			
						1217/4 sampler 6-20			
								-	
- 1									
	٦								
ĺ									
ļ	7						·		
L SAMI	PL	E TYPES:		Trace 0 to 5%	SPT Resist	ance		L	
SS=SI	PL	IT SPOON			Cohesionle	****	Consistency:	1.2 V CoA	Approved/Date
ST=S	HE	LBY TUBE		Little 15 to 25%	5-9 Loose	10-29 Med. Dense 3-4 Sc	oft, 5-8 M/Stiff,		
		K CORE		Some 30 to 45%	30-49 Dens	1	V. Stiff, 31+		
X:\FO	RI	MS\Field For	ns\[SBlogs	sDS.xls]Boring L	og		1000		

	IVI	etcali & E	aay, Inc			GEOLOGIC LOG			, , , , , , , , ,
				ENGINEER	S		METCA	LF&EDD\	AECOM
		JECT :	80 Hastings	Street Bridgepor	t, CT Phase	I/II/III Environmental Assessment		SHEET	BORING NO.
	SITI	E LOCATION:	80 Hasting	gs Street		JOB NO.: # 60045450.04		1 of 1	1513-17
			Bridgepor	t, CT		LOCATION:		Elevation:	Total Depth:
	DRI	LL CONTRAC		Glacier Drilling	3	N: E: ENG/GEO: Seremet/Kantor Zhvey		BEGUN:	<u> </u>
	DRI	LL RIG:	0 1	CAYON		DRILLER: 34/V		FINISHED:	
	Hole	Size:	1	Weather:	(Sun	Ground Water (1	Depth/Elev.)	
	Drill	ing Method :	Direct pus	h		Some Suite Street Street Suite Street Suite Suit	Top of Rock (De	opth/Elev.):	
	Dep	th Sample Type/No.	PID (ppm)	Blow Count (per 6 in.) or Drilling	Sample Recovery or REC &	SAMPLE DESCRIPTIO			RATIGRAPHIC DESCRIPTION
)-Y				Rate(min/ft)	RQD	NOTE: Depths read from top of recovered sa	mple		-
,			0			32" reave			
0-	6		0			aspholt, brightys Frad aspholt church	Pell .		
		6-12"				Fred asphelt churchs	FILL		
		12-188				(meres g			
	_	10-32		<u> </u>		Fine boun sand			
				Description of the second seco	Towns of the last sequence	As sample (a 8"			
4-84			0		34"	remany		THE A 21 STATE OF THE PROPERTY	
			0-10			Promy Fine send			
•			10-11=			church to concrete			
	_		11-2	1		Prom Fire send think it concrete Then say silt			
			24-79	-		F-m Arm Sand			
				and the state of t	H WARRY TO THE STATE OF THE STA				
0	- 1	2		24"rea	en				The second secon
		0-2	42			F Ben sendys; +			
							-		
	SS=S ST=S	PLE TYPES: SPLIT SPOON SHELBY TUBI OCK CORE		Trace 0 to 5% Few 5 to 10% Little 15 to 25% Some 30 to 45%	5-9 Loose	ess Density: 0-4 V. Loose Cohes: 10-29 Med. Dense 3-4	ive Consistency: Soft, 5-8 M/Stiff 30 V. Stiff, 31-	f, 9-15 Stiff	Approved/Date
								******	11

 $X:\label{logsDS.xls} Boring\ Log$

Me	<u>tcalf & F</u>	ddy, In	ıc.		GEOLOGIC LOG		
			ENGINEER	S		METCALF&ED	DDY AECOM
	ECT:	80 Hasting	s Street Bridgepo	rt, CT Phase	I/II/III Environmental Assessment	SHEET	BORING NO.
SITE	LOCATION	80 Hastii	ngs Street		JOB NO.: # 60045450.04	1 of	
		Bridgepo	ort, CT		LOCATION:	Elevatio	
DDII	Y (20) IMP				N: E:		n: Total Depth:
	L CONTRAC		Glacier Drillin	g	ENG/GEO: Seremet/Kanter shires	BEGUN	
	L RIG:	Geoprob			DRILLER: ブロジム	EINICH	ED.
Hole	′		Weather:	205	Sunny	ound Water (Depth/Ele	ev.):
Drillii	ng Method:	Direct pu	ısh			p of Rock (Depth/Elev	
			Blow Count	Sample			
Depth		PID	(per 6 in.)	Recovery	SAMPLE DESCRIPTION		STRATIGRAPHIC
ļ	Type/No.	(ppm)	or Drilling	or REC &			DESCRIPTION
-		 	Rate(min/ft)	RQD	NOTE: Depths read from top of recovered sampl	e	
		0		345			
6	1			 	1sphelx		
197		14			in Prans song some Ru	its grad	
24					Asphelt A Promison some Ru Fin brownson		
37(Fire brown sand justs, uls		
4				<u> </u>	, ,, ,,	(/-/	
		0		32"	Fine debronn sond time	e organis	etj
12							
12-	3/2-				Fire born sent, silt		
g							
+							
	<u> </u>						
					As 10-led \$18"		
					As regled 818"		
-							
	E TYPES:			SPT Resist		L_	Approved/Date
	LIT SPOON	•	Few 5 to 10%	Cohesionle	ss Density: 0-4 V. Loose Cohesive C	Consistency: 0-2 V. So	ft Priorem Date
	ELBY TUBE	į	Little 15 to 25%	5-9 Loose	10-29 Med. Dense 3-4 Soft	, 5-8 M/Stiff, 9-15 Sti	
	CK CORE		Some 30 to 45%	30-49 Dens		Stiff, 31+ Hard	
X:\FOR	MS\Field For	ms\[SBlog	sDS.xls]Boring L	og			

Met	calf & F	<u>lddy, Ir</u>			GEOLOGIC LOG			1
			ENGINEER			METCA	\LF&EDD\	Y AECOM
PROJE	CT:	80 Hasting	s Street Bridgepor	rt, CT Phase	I/II/III Environmental Assessment		SHEET	BORING NO.
SITE .	LOCATION	: 80 Hastin	ngs Street		JOB NO.: # 60045450.04			517-19
ł		Bridgepo	ort, CT		LOCATION:	Elevation:	Total Depth:	
DRILL	CONTRAC	CTOR :	Glacier Drilling		N: E: ENG/GEO: Seremet/Karror 5 h			3.5
DRILL		Geoprob			ENG/GEO: Seremet/Kantor 5 h	unes .	BEGUN:	
Hole S		~	Weather			C1717.4	FINISHED:	
			20	5 500	nny	Ground Water		
Drillin	g Method:	Direct pu	ısh		Drilling Fluid :	Top of Rock (D)enth/Elev)	
<u> </u>		-,			None	- op 011100n (2	3.	8
Donth	Sample	DID	Blow Count	Sample				
Depth	Type/No.	PID (ppm)	(per 6 in.)	Recovery		CRIPTION	ST	RATIGRAPHIC
l	Type/140.	(bbiii)	or Drilling Rate(min/ft)	or REC & RQD			D	DESCRIPTION
		$+ \overline{}$	Rate(IIIII/It)		NOTE: Depths read from top of reco	vered sample		
				167				
47		1			M-T-Busan F			
142					M-FBonsan F	enneks		
162	 	 						,
 					RULK fragmenty			
4								
-								
					As sample 8.	-16"		
								
				:				
	E TYPES:		Trace 0 to 5%	SPT Resist	ance		L.,	Approved/Date
S=SPL	IT SPOON		Few 5 to 10%	Cohesionles	ss Density: 0-4 V. Loose	Cohesive Consistency:	0-2 V. Soft	Approved/Date
	LBY TUBE	į	Little 15 to 25%	5-9 Loose	10-29 Med Dense	3-4 Soft, 5-8 M/Stiff	, 9-15 Stiff	
K=KOCI	K CORE		Some 30 to 45%	30-49 Dens	e 50+ V. Dense	16-30 V. Stiff, 31+	Hard	

Met	<u>calf & E</u>	<u>ddy, In</u>			GEOLOGIC LOG		1
			ENGINEER	S		METCALF&E	DDY AECO
PROJE	CT:	80 Hasting	s Street Bridgepo	rt, CT Phase	I/II/III Environmental Assessment	SHEET	BORING
SITE I	LOCATION:	80 Hastir	igs Street		JOB NO.: # 60045450.04	l of	
		Bridgepo	ort, CT		LOCATION:	Elevati	
					N: E:		on: Total Dep
DRILL	CONTRAC	TOR:	Glacier Drillin		ENG/GEO: Seremet/Kantor Short	BEGU	V :
DRILL		Geoprob	e 54LT			FINISH	IED :
Hole S	4		Weather: 72			Ground Water (Depth/E	
Drilling	g Method :	Direct pu			Drilling Fluid : None	Top of Rock (Depth/Ele	v.): >
D 4			Blow Count	Sample			
Depth	Sample	PID	(per 6 in.)	Recovery		N	STRATIGRAF
	Type/No.	(ppm)	or Drilling	or REC &			DESCRIPTION
	<u></u> -├		Rate(min/ft)	RQD	NOTE: Depths read from top of recovered sa	mple	
1		0		13"			
<u>_</u>				 	/ . /		
6		LY/		1	as shalt Marked some ne		
					M Ora Good Go as	clas	
				ļ	· · · · · · · · · · · · · · · · · · · ·		
17					rolk		
			 	1	7001		
4							
-			<u> </u>				
				·			
_							
	4						
4							
					As somble 6-10:		
					1000		
							<u> </u>
AMPL)	E TYPES:		Trace 0 to 5%	SPT Resis	ance		
	IT SPOON		II			vo Consisten In a zz. o	Approved/
	LBY TUBE	•	Little 15 to 25%	5-9 Loose	10-29 Med Dense	ve Consistency: 0-2 V. S Soft, 5-8 M/Stiff, 9-15 S	
	K CORE		Some 30 to 45%	30-49 Dens		0 V. Stiff, 31+ Hard	1111

Met	calf & F	ddy, Ir	1c.		GEOLOGIC LOG			
			ENGINEER	RS		METCA	LF&EDD	Y AECOM
PROJ	ECT:	80 Hasting	s Street Bridgepo	rt, CT Phase	I/II/III Environmental Assessment		SHEET	DODING NO
SITE	LOCATION	: 80 Hasti	ngs Street		JOB NO.: # 60045450.04		lofi	BORING NO.
		Bridgepo	ort, CT		LOCATION:		Elevation:	
					N: E:		2.6 vation.	Total Depth:
	L CONTRAC		Glacier Drillin	ıg	ENG/GEO: Seremet/Kantor		BEGUN:	
	L RIG:	Geoprob	e 54LT		DRILLER:		FINISHED	:
Hole S	Size:		Weather:	11.		Ground Water (
D=:11:	g Method :	D: .		US 321	124	i		
	ig Method:	Direct p	asn		DRILLER: Drylling Fluid: None	Top of Rock (D	epth/Elev.):	4
	T	Т	Blow Count	Sample	None			<u> </u>
Depth	Sample	PID	(per 6 in.)	Recovery	SAMPLE DE	CCDIDTION		
- 	Type/No.	(ppm)	or Drilling	or REC &		SCRIPTION		RATIGRAPHIC
	1	J	Rate(min/ft)	RQD	NOTE: Depths read from top of re	aarrand aannula		DESCRIPTION
\top		1		1/	TOTE. Depuis read from top of re	covered sample		
				121				
<i>.</i> }		╄						
5	1		i i		Acola 1+			
ľ	<u></u>	i			Aspla 1+		The state of the s	
2								
122		İ	-		M-F Brown Son	1 sate - 000	4-	
-		+			17-0011 301	of Golde	<i>/</i> - <i>J</i>	
ľ	1	ì					1	
		<u> </u>						
. [-]					(a	1/-1/		
11		j			For Brown Sand	1 50 14	- 1	
+	 	 			For Brown 5 how	one rolls,		
			İ				1	
L	ļ			<u> </u>	•			
							-	
Ė		 						
							- 1	
				1				
i i								
	1	†		 				
]	ļ						
-		<u> </u>						
			1					
		1						
\vdash		ļ	 					
		1			1			*
					As sigle	19-21-		
				†		4		
]	1				4.		
\vdash	ļ <u>.</u>	<u> </u>		<u> </u>		<u> </u>		
-		:						
		, '						
AMPI	E TYPES:	J.	Trace 0 to 5%	SPT Resis	tance		<u> </u>	
	IT SPOON		Few 5 to 10%	Cohesionle	ess Density: 0-4 V. Loose	Cohecive Consisten	0.2 V C-6	Approved/Date
	ELBY TUBE		Little 15 to 25%	5-9 Loose	10-29 Med. Dense	Cohesive Consistency: 3-4 Soft, 5-8 M/Stiff,	0-2 V. SOIT	* * /
	K CORE		Some 30 to 45%			3-4 3011, 3-8 IVI/Still,	, y-13 Suit	

Met	<u>calf & F</u>	ddy, Ir	ic.		GEOLOGIC LOG		·	1
			ENGINEER	S		METCAL	.F&EDD\	AECOM
PROJE	ECT :	80 Hasting	s Street Bridgepor	rt, CT Phase	I/II/III Environmental Assessment		SHEET	BORING NO.
SITE	LOCATION	: 80 Hasti	ngs Street		JOB NO.: # 60045450.04		l of l	5/3-22
		Bridgepo	ort, CT		LOCATION:		Elevation:	Total Depth:
DRILI	CONTRAC	TOR ·	Glacier Drillin	~	N: E: ENG/GEO: Seremet/Kattor 51			3,.
DRILI	RIG:	Geonroh	4.47.		DRILLER:		BEGUN:	
Hole S		7	Weather:			Ground Water (D	FINISHED:	
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- <i>O</i> J	S COOL	1	• /	
Drillin	g Method :	Direct pu			Drilling Fluid : None	Top of Rock (Dep	pth/Elev.):	3'
Depth	Sample	PID	Blow Count (per 6 in.)	Sample Recovery				
Dopui	Type/No.	(ppm)	or Drilling	or REC &	SAMPLE DESCRIPTION	ON		RATIGRAPHIC
	,,		Rate(min/ft)	RQD	NOTE: Depths read from top of recovered sa	amnle		ESCRIPTION
				134	- opino roud iron top or recovered si	ampic		
1-		1		 	1 1 1 1			
3		ļ		-	Asph 1+			
9=		<u> </u>			Asphilt Man soud s rock			
134					C. C/c			
4/						9 776 64 64 64 64 64 64 64 64 64 64 64 64 64		
-		<u> </u>						
-		ļ						
-								
		 						
					As suple 9-13	T		
						William I		
	,							
SAMPL	E TYPES:		Trace 0 to 5%	SPT Resist	ance		L.	
S=SPL	IT SPOON		Few 5 to 10%	Cohesionle	ss Density: 0-4 V. Loose Cohesi	ive Consistency: 0-		Approved/Date
	LBY TUBE	:	Little 15 to 25%	5-9 Loose	10-29 Med Dense 3.4	Soft, 5-8 M/Stiff,		
R=ROCI	CORE		Some 30 to 45%	30-49 Dens		30 V. Stiff, 31+ 1		

Met	calf & E	<u>ddy, Ir</u>	nc.		GEOLO	GIC LOG				1
			ENGINEER					METCALI	F&EDD\	/ AECOM
PROJ	ECT :	80 Hasting	s Street Bridgepo	rt, CT Phase	I/II/III Enviro	nmental Assessment		ls	HEET	BORING NO.
SITE	LOCATION	80 Hasti	ngs Street		JOB NO.: #	# 60045450.04			l of l	513 23
		Bridgepo			LOCATION: N:	E	:	F	Elevation:	Total Depth:
	L CONTRAC		Glacier Drillin	g	ENG/GEO :	Seremet/Kantor	shows	Ē	BEGUN:	
	L RIG:	Geoprob			DRILLER:	susm			INISHED:	
Hole S		,~	Weather:	201	Sury		1	Ground Water (De		6-
Drillin	g Method :	Direct pu	ush		Drilling Fluid None	:	1	op of Rock (Dep	th/Elev.):	B
			Blow Count	Sample						***************************************
Depth	Sample	PID	(per 6 in.)	Recovery		SAMPLE I	DESCRIPTION	!	ST	RATIGRAPHIC
l	Type/No.	(ppm)	or Drilling	or REC &					D	ESCRIPTION
 			Rate(min/ft)	RQD	NOTE: De	pths read from top of	recovered sam	ple		
				27"	<u> </u>					
6					A. 1 /	',				
		1			" Sphy 1-	/				
21	<u> </u>				1M	browsend	some no	eks		
27					Fire	brown sent brown s.	end			
4						, 03				- 11
		<u> </u>								
					1-	Piece sla	4 C 6	. 7		
			,			:				
				135	elove.	ks wet sad silt				
0-6					ruc	ks wet	r Fsa	-4		
6	3-				FM.	sad silt	L und	<i>*</i>		
										.,
-										
					As	sample 0	6-20	y		
						,				
										<u>. </u>
CANCE	E TIMES								İ	
	E TYPES:			SPT Resis						Approved/Date
	.IT SPOON ELBY TUBE		Few 5 to 10%	Cohesionle	ss Density: 0-	4 V. Loose		Consistency: 0-		
	K CORE	•	Little 15 to 25%	20 40 D	10-29 Med	d. Dense		ft, 5-8 M/Stiff, 9		
K-KUC	N COKE		Some 30 to 45%	<u>U-49 Dens</u>	se 50+ V. De	ense	16-30	V. Stiff, 31+ I	-lard	1

M	<u>let</u>	<u>calf & E</u>	<u>ddy, In</u>	ıc.		GEOLOGIC LOG			1
				ENGINEER			METCA	LF&EDD	Y AECOM
PR	OJE	ECT : LOCATION:	80 Hastings	s Street Bridgepor	t, CT Phase	I/II/III Environmental Assessment		SHEET	BORING NO.
31,	LE.	LOCATION:	Bridgepo			JOB NO.: # 60045450.04 LOCATION:	······································	l of l	24
			Diagopo	и, ст				Elevation:	Total Depth:
DR	ILL	CONTRAC	TOR:	Glacier Drillin		N: E: ENG/GEO: Seremet/ Kantor 5ん。 DRILLER: するい	~es	BEGUN:	
DR	ILL	RIG.	Goonroh	e 54LT	7	DRILLER: 765.0		FINISHED	
L		ize: γ'		Weather:	205	SV My Drilling Fluid!	Ground Water (Depth/Elev.)	:
Dri	illin	g Method :	Direct pu	-		Drilling Fluid ! None	Top of Rock (De	epth/Elev.):	2.5
De	pth	Sample Type/No.	PID (ppm)	Blow Count (per 6 in.) or Drilling Rate(min/ft)	Sample Recovery or REC & RQD	NOTE: Depths read from top of recov	•		TRATIGRAPHIC DESCRIPTION
					10	,			
J-1/2	7	1]	aspholt			
1	۰	ļ <u> </u>	ļ			brown sand mixed al	Asphali black	16-1 4	esibly All
13						brown sand mixed af Possible f.11 Layer,	coalslag, 61	allesa-	1
16						F bra Sand			
18	-					For sand York refusil	p2,51		
	-								
	L								
-									
2	_					As songle 81x	-18-		
	\vdash							-	·····
			-						~-
	H								
SAL	/IPI	E TYPES:		Trace 0 to 5%	SPT Resis	tomas.			
		IT SPOON					Cohecive Consistence	0.237 0-6	Approved/Date
		LBY TUBE		Little 15 to 25%	5-9 Loose	10-29 Med. Dense	Cohesive Consistency: 3-4 Soft, 5-8 M/Stiff,		
		K CORE		Some 30 to 45%	30-49 Dens	se 50+ V. Dense	16-30 V. Stiff, 31+		
X:\F	ORI	MS\Field For	ms\[SBlogs	sDS.xls]Boring L			7,000		

Met	calf & E	ddy, Ir	1C.		GEOLOGIC LOG			1
			ENGINEER	S		METCA	LF&EDD	Y AECOM
PROJE	CT:	80 Hasting	s Street Bridgepo	rt, CT Phase	I/II/III Environmental Assessment		SHEET	BORING NO
SITE	LOCATION	: 80 Hasti	ngs Street		JOB NO.: # 60045450.04		l of l	BORING NO.
		Bridgepo	ort, CT		LOCATION: N: E:		Elevation:	Total Depth:
DRILI	CONTRAC	CTOR:	Glacier Drillin	g	ENG/GEO: Seremet/Kantor sl		BEGUN:	
DRILL	. RIG:	Geoprob	e 54LT	_	DRILLER: Jagon	<u></u>	FINISHED:	
Hole S	ize: V	/	Weather:	20s		Ground Water (
Drillin	g Method:	Direct pu	ısh		Drilling Fluid :	Top of Rock (Do	epth/Elev.):	7
<u> </u>			ID: C	Io i	None			<i>3</i> ′
Depth	Sample	PID	Blow Count (per 6 in.)	Sample Recovery	0.43 (M) T D D C C			
Popul	Type/No.	(ppm)	or Drilling	or REC &		RIPTION		RATIGRAPHIC
		(PP)	Rate(min/ft)	RQD	NOTE: Depths read from top of recov	orod gammla		DESCRIPTION
				24"	NOTE. Depais read from top of fector	ered sample		
34	1	 						
3				}	Asple 1x Prom m-6 sand Blue sand Fred			
117					Proma m- (soul			
17					Bluesa-d For Disco	of Green war	do	15/
24"					F	1	7.	
	 	 	 		1 m from sand	Liftle Rock	1	
۲					Fire Brown sond			
					C			
-	 		_	-				
								•
					¥.			· · · · · · · · · · · · · · · · · · ·
					A			
<u> </u>					As somple 5-	DE T		
							. get	
-	-							
	E TYPES:		Trace 0 to 5%	SPT Resis	tance	· · · · · · · · · · · · · · · · · · ·	L	Approved/Date
	IT SPOON	_	Few 5 to 10%	Cohesionle	ss Density: 0-4 V. Loose	Cohesive Consistency:	0-2 V. Soft	rippioved/Date
	LBY TUBE	3	Little 15 to 25%	5-9 Loose	10-29 Med. Dense	3-4 Soft, 5-8 M/Stiff,		
K=KOC	K CORE		JSome 30 to 45%	30-49 Dens	se 50+ V. Dense	16-30 V. Stiff, 31+		

ivie	tcalf & F	<u>lddy, Ir</u>			GEOLOGIC LOG			1
			ENGINEER	s		METCALF &	& EDDY	AECOM
PROJ.		80 Hasting	s Street Bridgepo	rt, CT Phase	2 I/II/III Environmental Assessment	SHI	EET	BORING NO
SITE	LOCATION	: 80 Hastii	ngs Street		JOB NO.: # 60045450.04		l of l	BORING NO.
		Bridgepo			LOCATION: N: E:		vation:	Total Depth:
DRIL	L CONTRAC L RIG:		Glacier Drillin		ENG/GEO: Seremet/Kanter Sharry	BEG	GUN:	<u> </u>
Hole S	Size: 2	Geoprob			IDRILLER: etc. / C.h	FIN	ISHED:	
	ng Method :	D:	" cauler 9	105 Su	Drilling Fluid:	Ground Water (Dept	h/Elev.) :	
	ig Method :	Direct pu			Drilfing Fluid : None	Top of Rock (Depth/	Elev.):	4-
Depth	Sample Type/No.	PID (ppm)	Blow Count (per 6 in.) or Drilling Rate(min/ft)	Sample Recovery or REC & RQD	SAMPLE DESCRIPTION NOTE: Depths read from top of recovered sa		ST	RATIGRAPHIC ESCRIPTION
				7011				
54					Aspl. 1 ×			
-			·					
13					M Pra 54-1			
18					de Gran Rlay locat p	resect plass	6	
25					= Brown sand /silx			
28					med Grong sand , rocks	•		
30[F Brown sand /5:14 med Grong sand, rocks Rock			
					reful p y			
					As some 15-28"			
					. •			
S=SPL T=SHE	E TYPES: IT SPOON ELBY TUBE K CORE		Few 5 to 10% Little 15 to 25%	5-9 Loose	ss Density: 0-4 V. Loose Cohesiv 10-29 Med. Dense 3-4 S	ve Consistency: 0-2 V Soft, 5-8 M/Stiff, 9-1: 0 V. Stiff, 31+ Hard	7. Soft 5 Stiff	Approved/Date

Met	<u>calf & F</u>	<u>Eddy, Ir</u>	ıc.		GEOLOGIC LOG			1
			ENGINEER	S		METCA	LF & EDDY	AECOM
PROJI	ECT :	80 Hasting	s Street Bridgepo	rt, CT Phase	e I/II/III Environmental Assessment		SHEET	BORING NO.
SITE	LOCATION	: 80 Hasti	ngs Street		JOB NO.: # 60045450.04		l of 1	50 -27
		Bridgepo	ort, CT		LOCATION:		Elevation:	Total Depth:
DRILI	CONTRA	CTOR ·	Glacier Drillin		N: E:			٨,,
	RIG:	Geoprob	e 541 T	g	ENG/GEO: Seremet/Kanser DRILLER:	shores	BEGUN:	
Hole S				1 - 0		Ground Water (FINISHED:	
<u></u>				105 S	UNAY	Olouliu Water (Depublica.).	
Drillin	g Method :	Direct pu	ısn		Drilling Fluid : None	Top of Rock (De	epth/Elev.):	8
Depth	Sample	PID	Blow Count (per 6 in.)	Sample	G.13 (7) 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			
Depui	Type/No.	(ppm)	or Drilling	Recovery or REC &		RIPTION		RATIGRAPHIC
L		477	Rate(min/ft)	RQD	NOTE: Depths read from top of recov	zerod cample	D	ESCRIPTION
				331		cica sample		
5				//	esphilt			
7					-splil x			
17					cancre le			
22	ļ				on bry said rucks			
					black m-1- sa-1			
y'			77-774	//	4			
1		ļ		rellow	black M-1- Sa-1	(
		 						
-								
		ļ !						
+					A	le .		
-					As sugle 500-22			
-								W
	-							
H								
AMDI	E TYPES:		T 0 : 50:	ang =		•		
	IT SPOON		Trace 0 to 5% Few 5 to 10%	SPT Resist	ss Density: 0-4 V. Loose	0.1		Approved/Date
	LBY TUBE	3	Little 15 to 25%	5-9 Loose	10-29 Med Dense	Cohesive Consistency:	0-2 V. Soft	j
	K CORE		Some 30 to 45%	30-49 Dens	se 50+ V. Dense	3-4 Soft, 5-8 M/Stiff, 16-30 V. Stiff, 31+	y-15 Stiff	
UCODI	101771						TIMIU	

Met	tcalf & E	ddy, In	ıc.		GEOLOGIC LO	\mathbf{G}			1
	*		ENGINEER	S			METCA	LF&EDD	Y AECOM
PROJI	ECT:	80 Hasting	s Street Bridgepo	rt, CT Phase	I/II/III Environmental A	ssessment		SHEET	BORING NO.
SITE	LOCATION:	80 Hastir	ngs Street		JOB NO.: # 60045	450.04		1 of 1	28
		Bridgepo	ort, CT		LOCATION:			Elevation:	Total Depth:
DEILI	L CONTRAC	TOP .	Clasica Daillia		N:	<u>E:</u>	···		2.5
DRILI	L RIG:	Geoprob	Glacier Drillin		ENG/GEO: Seremet/ DRILLER: グルくの一		<u> </u>	BEGUN:	
Hole S	Size: O	A-Copioo	Weather ·					FINISHED:	
		Direct pu	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	3			Ground Water (
	ig Mctiloti .	Direct pu			Drilling Fluid : None		Top of Rock (epth/Elev.):	52
Depth	Sample	PID	Blow Count	Sample	·				
рери	Type/So.	1	(per 6 in.)	Recovery		SAMPLE DESCRIP	TION		RATIGRAPHIC
	турсіся.	(ppm)	or Drilling Rate(min/ft)	or REC &				D	DESCRIPTION
Т		1	Rate(IIIIVIE)		NOTE: Depths read f	rom top of recovere	d sample		
		10		24/					
	0-64				Asph 1.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
 -	6-12	 		 -	M Bon 6				······································
	12-17	į	1	İ		332-6-20			
 -		<u> </u>	<u> </u>		blackish sa-	d For			
	73-18								
L	15-20				Brang on s	tend, well	ke		
	1						· <u>J</u>		
	20-24	ľ		Pran	Brong on s	// -			
\top					/	(1ay 0/55	nics reis		
						•		İ	
.	·			-					
								-	
_				L				Ì	
]	ĺ							
1		! 		1					
[-]			1					
\vdash	 		 						
	}		İ					1	
4					- 漢- 	. <i>≠</i>]	
					,				
			1						
] .								
\vdash	 -		<u> </u>		·				
1	[ļ 	1	- /	, , , , , , , , , , , , , , , , , , , ,		
L_					A	Sumple	6-15		İ
	[
			 				· · · · · · · · · · · · · · · · · · ·		
<u>آ</u>	E Trans								
	E TYPES:			SPT Resis					Approved/Date
	IT SPOON ELBY TUBE		Few 5 to 10%	Cohesionle	ss Density: 0-4 V. Loos	l	hesive Consistency:		· -
	K CORE		Little 15 to 25% Some 30 to 45%	130 40 Dans	10-29 Med. Dense se 50+ V. Dense		3-4 Soft, 5-8 M/Stiff		
		\5070			e out v. Dense		16-30 V. Stiff, 31+	- Hard	
x:wor	MS/Field For	ms\[SBlogs	sDS.xls]Boring L	og					

Me	tcalf & E	<u>ddy, Ir</u>	1c		GEOLOGIC LOG			1
			ENGINEER	S		METCA	LF & EDD	AECOM -
PROJ		30 Hasting	s Street Bridgepor	t, CT Phase	I/II/III Environmental Assessment		SHEET	BORING NO.
SITE	LOCATION:	80 Hasti	ngs Street		JOB NO.: # 60045450.04		l of l	BORING NO.
		Bridgepo		_	LOCATION: N: E:		Elevation:	Total Depth:
DRIL	L CONTRAC		Glacier Drillin	g	ENG/GEO: Seremet/Kantor	IRRS	BEGUN:	1
Hole S	L RIG:	Geoprob			DRILLER: JASON		FINISHED	
			Weather :		ivny	Ground Water (
Drillin	ng Method :	Direct pu	ush		Drilling Fluid : None	Top of Rock (D	epth/Elev.):	4
Dometh		DID	Blow Count	Sample				
Depth	Sample Type/No.	PID	(per 6 in.)	Recovery	SAMPLE DESC	RIPTION		RATIGRAPHIC
ı	Type/No.	(ppm)	or Drilling Rate(min/ft)	or REC & RQD			1	DESCRIPTION
Г	0-	 	Rate(IIIII/It)		NOTE: Depths read from top of recov	ered sample		
	,			41°-	Asphelx		-	
	3-14=			1 /	~ Bransend			
	14-16				10 (6		<u> </u>	
	14-18	ļ		<u> </u>	m Brown send rue	chs		
	15-34				men Ironaish 18.	lack sort		
	74-41	<u> </u>			First from sent clay"	focks	-	
	<u>'</u>				net rock			
-					rock m Brown send rock men Brown ish B Prick freshers, Fire from send clay met rock Afisal O			
						-		
†							-	
-		,	 					
					As surple 1:-	342		
F								
SAMPI	E TYPES:		Trace 0 to 5%	SPT Resis	tonoo			
	LIT SPOON		H I		· · · · · · · · · · · · · · · · · · ·	Cohorino Carrainte	0.01/.0.0	Approved/Date
	ELBY TUBE		Little 15 to 25%	5-9 I nose	10-29 Med. Dense	Cohesive Consistency:		
	CK CORE		Some 30 to 45%	30-49 Dens	se 50+ V. Dense	3-4 Soft, 5-8 M/Stiff 16-30 V. Stiff, 31+	, 9-15 Suii Hard	

Met	calf & E	<u>ddy, In</u>	ic.		GEOLOGIC LOG			The same of the sa
			ENGINEER	s		METCA	LF&EDDY	/ AECOM
PROJE	ECT :	80 Hasting	s Street Bridgepo	rt. CT Phase	e I/II/III Environmental Assessment		SHEET	DODING NO
SITE	LOCATION:	80 Hastii	ngs Street		JOB NO.: # 60045450.04		l of 1	BORING NO.
		Bridgepo			LOCATION:		Elevation:	Total Depth:
ווומע	CONTRAC	TOD .	Cl. I. D. III		N: E:			4
	CONTRAC	Geoprob	Glacier Drillin		ENG/GEO: Seremet/Kanter 5/10/	CS	BEGUN:	
Hole S		Geoprob	Weather ·		DRILLER: SUSUA	IIO 1777 (FINISHED:	
	~		Weather:	01	SVMY	Ground Water (Depth/Elev.):	
Drillin	g Method:	Direct pu	ısh		Drilling Fluid :	Top of Rock (D	epth/Elev.):	
		· · · · · · ·			None	Top of Rock (D	124	
Depth	Commission	DID	Blow Count	Sample				
Depui	Sample Type/No.	PID (ppm)	(per 6 in.) or Drilling	Recovery		ION		RATIGRAPHIC
	Type/No.	(bbiii)	Rate(min/ft)	or REC & RQD			D	ESCRIPTION
		<u> </u>	Trate(HAIVIT)		NOTE: Depths read from top of recovered s	sample		
				21/10	ary			
	0-4							
 -	 	 	-		aspea"			
	4712				F-M from sand			
	12-14				weethered rock, Cs.	-d It bro	1	
-	14-21				1/ 1 6 1			
+					dk bronn Frand	~		
					uer 196			
					·			
					16 souple 4-12"-			
					16 souple 4-12"			
					ETOH somele 14-21"			
+		 						~~~~
-								
						· · · · · · · · · · · · · · · · · · ·		
لِللهِ ر								
	E TYPES:		Trace 0 to 5%	SPT Resist				Approved/Date
	IT SPOON ELBY TUBE		Few 5 to 10% Little 15 to 25%	Cohesionle		sive Consistency:		
	K CORE		Some 30 to 45%	30-49 Deni		Soft, 5-8 M/Stiff		
					SO SOLVE II IN	OU V SHIFT ALL	Hatri I	

Met	<u>calf & E</u>	<u>ddy, Ir</u>			GEOLOGIC LOG	1
			ENGINEER	S	METCALF	& EDDY AECOM
PROJE	ECT: 8	80 Hasting	s Street Bridgepor	rt, CT Phase	I/II/III Environmental Assessment SI	HEET BORING N
SITE	LOCATION:	80 Hastii	igs Street		JOB NO.: # 60045450.04	1 of 1 573-3
l		Bridgepo	ort, CT		LOCATION: EI	evation: Total Depth
DDIVI	CONTENT				N: E;	6
	CONTRAC		Glacier Drillin	g	N: E; ENG/GEO: Seremet/Kantor Shaper BI	EGUN:
Hole S	RIG:	Geoprob			DRILLER:)A/v. FI	NISHED :
L.	~~~		Weather:	20,	Ground Water (Per	•
Drilling	g Method :	Direct pu	sh		Drilling Fluid / Top of Rock (Depth None	n/Elev.):
			Blow Count	Sample		
Depth	Sample	PID	(per 6 in.)	Recovery	SAMPLE DESCRIPTION	STRATIGRAPH
]	Type/No.	(ppm)	or Drilling	or REC &		DESCRIPTION
	<u> </u>	 	Rate(min/ft)	RQD	NOTE: Depths read from top of recovered sample	2 200101 1101
				31"	recovery	
			1			
	y-5 4			1	1/14	
	5-54	<u> </u>	1		Missel /	
-		 	 	-	m prosentracles	
	18-14-				Airhelt M Brasedprocles Fill process of sless, plesses Roce Roce Roce	
	14-11			 	Rock Fine Sal	
		1				
	16 - 18		ļ		14 Brown Sand	
	20-27	1	·		Blackesh bron- m-F sa-1	
	27-21				by bra mac send	
Τ	29-31		T		1-= Barrant 61 1 = 1	
_					More Brown sand Blackersh bron- m-p sad L+ bra m-c send n-p Brownish black son my range	ggeries
					ACTION OF THE PROPERTY OF THE	
				1800	Moregy	A CHARLES OF A STREET OF THE S
	0-6-				M Pa sould Blockish Gran- so-A wet	·
	6-12				Blockest Gran- send wet	
	12:3				net from m-sent	
				·	uer @ 107	
					refusal @ 6	
					ner @ 10" refusu @ 6" As simple 8-18"	*4
AMPL	E TYPES:		Trace 0 to 5%	SPT Resist	ance	Approved/Da
	IT SPOON		Few 5 to 10%	Cohesionle	ss Density: 0-4 V. Loose Cohesive Consistency: 0-2	
	LBYTUBE		Little 15 to 25%	5-9 Loose	10-29 Med. Dense 3-4 Soft 5 8 M/Stiff 0	
ノーロへのは	K CORE		Some 30 to 45%	30-49 Dens	se 50+ V. Dense 16-30 V. Stiff, 31+ Ha	rd

Met	<u>calf & E</u>	<u>ddy, In</u>	ic.		GEOLOGIC LOG			1
			ENGINEER	S		METCA	NLF&EDD	Y AECOM
PROJ	ECT:	80 Hasting	s Street Bridgepo	rt, CT Phase	I/II/III Environmental Assessment		SHEET	POPING NO
SITE	LOCATION:	80 Hastir	igs Street		JOB NO.: # 60045450.04		l of l	BORING NO. 7と
		Bridgepo	rt, CT		LOCATION:		Elevation:	
BRILL	00) (00)				N: E: ENG/GEO: Seremet/Kantor			Total Depth:
	CONTRAC		Glacier Drillin	g	ENG/GEO: Seremet/Kanter	KINRS	BEGUN:	
Hole S		Geoprob			DRILLER: 3 45.	•	FINISHED	:
l	·		Weather:		SUMMY	Ground Water		
	g Method :	Direct pu			Drilling Fluid : None	Top of Rock (D	Depth/Elev.):	3.5
Depth	Sample	PID	Blow Count	Sample				
Depui	Type/No.	1	(per 6 in.)	Recovery	SAMPLE DES	CRIPTION	ST	RATIGRAPHIC
İ	Type/No.	(ppm)	or Drilling Rate(min/ft)	or REC &			I	DESCRIPTION
	1.7	 	Rate(IIIII/It)	RQD 7.2 "	NOTE: Depths read from top of reco	overed sample		
	04"			March	n Binsed rucks			
	4-10 -			1	m Binsaid rucks			
	14-12				mand (court)			
	12-23				mood (rost?)	ly pieces of st	1-15 11	
-		 -					/12	
	27-32				Film 1- May Mace	Delle .		
					/ /	- Ctcs		
+	ļ							
					refusal @	3.5		
	-							
					7			
-								<u></u>
			j					***
+					1			
					1/5			
					13-3	7		-
					ETPH)			·
H		· .			KINT /			·
			·					
AMDI	TVDEC.		T04 501					
	E TYPES: IT SPOON			SPT Resist				Approved/Date
O-OLU T=GUE	LBY TUBE		Few 5 to 10%	Cohesionles	ss Density: 0-4 V. Loose	Cohesive Consistency:		
	CORE		Little 15 to 25%	5-9 Loose	10-29 Med. Dense	3-4 Soft, 5-8 M/Stiff		
			50 to 45%	30-49 Dens	e 50+ V. Dense	16-30 V. Stiff, 31+	Hard	
:\FORM	AS\Field Forr	ns\fSBlogs	DS.xls]Boring Lo	nσ	······································			

Met	call & E	<u>ddy, I</u> i			GEOLOGIC LOG		1
			ENGINEER	S		METCALF&ED	DY AECO
PROJE	ECT:	80 Hasting	gs Street Bridgepo	rt. CT Phase	I/II/III Environmental Assessment	SHEET	DODDIO A
SITE	LOCATION:	80 Hast	ngs Street	,	JOB NO.: # 60045450.04	l of 1	BORING N 「パー3 3
		Bridgep			LOCATION:	Elevation	
						Elevation	n: Total Deptl
DRILL	CONTRAC	TOR:	Glacier Drillin	g	N: E: ENG/GEO: Seremet/Kantor S H. A. Es	BEGUN	. 11
DRILL	_ RIG:	Geoprol	e 54LT	·	DRILLER: -> 4512	FINISHE	
Hole S	ize:	./	Weather:	20,		nd Water (Depth/Ele	v.):
Drillin	g Method :	Direct p		203	Drilling Fluid: Top c	of Rock (Depth/Elev.)	<u>)· </u>
		т		T	None	(2 *p ** 2 **)	′.5/
S 41.		 	Blow Count	Sample			
Depth	Sample	PID	(per 6 in.)	Recovery	SAMPLE DESCRIPTION	•	STRATIGRAPI
	Type/No.	(ppm)	or Drilling	or REC &			DESCRIPTIO
	+	 	Rate(min/ft)	RQD	NOTE: Depths read from top of recovered sample		
	Ī	1		200			· · · · · · · · · · · · · · · · · · ·
	1	1		recovery	4 Concre		
	1,			10007	4 - concret Fre Brown 5a-d		
	4-20	f,	1		F 3		
<u> </u>					I've from Sand		
							·····
		1		[,		ĺ	
\vdash	 	<u> </u>		ļ			
	ł	1		1			
						İ	
			-	l			
						1	
				<u> </u>			
_ _				-			
1				9			
⊢	 		 	recover	7		
			0-9-	1			
					Fire brown sand	ļ	
	[j			
<u> </u>	ļ						
]						
				[İ	
		·		 			-
	j ļ						
\sqcap							
			,	ſ			
\vdash							
						[
\vdash	<u> </u>		 				
	i						^
	· .]	refuse 1 p 5 on hard 6	Land Control	1/2, 7
					09) 11870 19	EK V + 4 (1 141	(1057)
	1		1			1	
\vdash						į	
	i i						
	ļ			l		İ	
MDI	E TVDEO						
	E TYPES:		Trace 0 to 5%	SPT Resist	ance		Approved/D
	IT SPOON		rew 5 to 10%	Cohesionle	ss Density: 0-4 V. Loose Cohesive Con	sistency: 0-2 V. Sof	t
	LBY TUBE		Little 15 to 25%	5-9 Loose	10-29 Med Dense 3.4 Soft 5	-8 M/Stiff, 9-15 Stiff	ſ
	CORE		Some 30 to 45%	30-49 Dens	e 50+ V. Dense 16-30 V. S	tiff, 31+ Hard	1

M	<u>et</u>	<u>calf & E</u>	<u>ddy, In</u>			GEOLOGIC LOG		~	1
				ENGINEER	S	12/23	METCAL	LF&EDD\	AECOM
PRC)JE	CT: 8	30 Hastings	Street Bridgepo	rt, CT Phase	I/II/III Environmental Assessment		SHEET	BORING NO.
SITI	ΕI	LOCATION:	80 Hastin	gs Street		JOB NO.: # 60045450.04		l of l	817 - 74
1			Bridgepo	rt, CT		LOCATION:		Elevation:	Total Depth:
DRI	LĹ	CONTRAC	TOR ·	Glacier Drillin	α	N: E: E: ENG/GEO: Seremet/Kanner S. W. 12(4
		RIG:	Geoprobe	541 T		DDILLED.		BEGUN:	
Hole	e Si	ize: O	7	Weather:	- 0)	, same and s	Ground Water (I	FINISHED:	
		•		1	V 5 5	Un14	Oround Water (E	cpub Liev.).	
DIII	ııng	g Method:	Direct pu			DRILLER: FATA Unny Drilling Fluid: None	Top of Rock (De	pth/Elev.):	4
Dept	th/	Samuele	PID	Blow Count (per 6 in.)	Sample Recovery				
F.	7	Samele Type/No.	(ppm)	or Drilling	or REC &	SAMPLE DESCRIPTION	N		RATIGRAPHIC
				D-4-6-2-705	non		nnle	η D	ESCRIPTION
1					224	- spans round round of recovered sun	прис		····
	L				12 re	cin-		İ	
		0-4-				NOTE: Depths read from top of recovered san			
	Г	4-14							
	_						### YOF.		
		14-32				de dran fre sand	s. 1 +		
							· · · · · · · · · · · · · · · · · · ·		
_	_			<u> </u>					
						<u> </u>			

	-								
									·
4'				ĺ					
+									
	\downarrow								
	T					As sayle 2-2	4.44.5		
-	+		·—			713,792	0-14°		
-	4					2-4'	£14-32		
		TYPES:		Trace 0 to 5%	SPT Resist	ance		L	Annuary 1/D
		T SPOON		Few 5 to 10%	Cohesionle		e Consistency: 0	-2 V Soft	Approved/Date
		LBY TUBE		Little 15 to 25%	5-9 Loose	10-29 Med. Dense 3-4 Sc	oft, 5-8 M/Stiff,	9-15 Stiff	Ì
		CORE		Some 30 to 45%	30-49 Dens		V. Stiff, 31+		
X:\FO	RN	IS\Field Forr	ns\[SBlogs	DS.xls]Boring L	าฮ				

Mete	ealf & E	<u>ddy, Ir</u>			GEOLOGIC LOG			1
			ENGINEER			METCALF	& EDDY	' AEC
PROJE	CT:	80 Hasting	s Street Bridgepo	rt, CT Phase	e I/II/III Environmental Assessment	SH	EET	BORING
SITE I	OCATION:	80 Hasti	ngs Street		JOB NO.: # 60045450.04		l of l	177 3
		Bridgepo	ort, CT		LOCATION:	Ele	vation:	Total D
DRILL	CONTRAC	TOR ·	Glacier Drillin		N: E: ENG/GEO: Seremet/Kantor Co. 28 2		GVNV	<u> </u>
DRILL	RIG:	Geoprob	e 541 T		ENG/GEO: Seremet/Kantor DRILLER: TESCAL HAR		GUN : NISHED :	
Hole Si	ze : 2 ~		Weather : W			Ground Water (Dep		
D:111:	Method :	72:		3 34	My	ļ		
Dritting	Method:	Direct pu	ish		Drilling Fluid : None	Top of Rock (Depth	/Elev.):	.5
n /	~		Blow Count	Sample		* .		
Depth	Sample Type/No.	PID	(per 6 in.)	Recovery		ON		RATIGRA
	1 XD9/140.	(ppm)	or Drilling Rate(min/ft)	or REC &		1.	D	ESCRIP ₁
			Tate (Mille It)	INQD	NOTE: Depths read from top of recovered sa	mpie		 .
		1 ()		14-1	1000		1	
		T OL		 				
	0-4-]	acolar (7		- 1	
\vdash		 	-	 	usp v			·
	8-14				11602 5=1		-	
-	2 1.	+		-	WI WI WIN			
	8-14		1	[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	recorde.		
-	U	 	 		1 t 6 ma send so	7 - 100 3		
]					
	· · · · · · · · · · · · · · · · · · ·			100	NOTE: Depths read from top of recovered sa (org asphy (7) d1 bran sand (+ 60 mg sand su			
				12"	recon			
		1			7			
					, · · · · ·			
		[
		<u> </u>						
						-	- -	-
				1 1				
							-[
			1		SAMMI			
						12.1	_	
					A(0/2) = 6-	- 12=		
П					1 - (1 -	~~ ~	
					4-5' = m	~ @ ~		
					SAMME As 0-2':6- 4-5'-0	<u> </u>		
Ш	<u> </u>			<u> </u>				
	TYPES:			SPT Resis				Approved
	T SPOON LBY TUBE		Few 5 to 10%	Cohesionle		ve Consistency: 0-2	V. Soft	
	CORE	•	Little 15 to 25%	3-9 Loose	3 (1	Soft, 5-8 M/Stiff, 9-1		

Mete	calf & E	<u>ddy, In</u>	c.		GEOLOGIC LOG			1
			ENGINEER	S		METCA	ALF&EDI	DY AECOM
PROJE		80 Hastings	Street Bridgepo	rt, CT Phase	I/II/III Environmental Assessment		SHEET	BORING NO.
SITE I	OCATION:	80 Hastin	igs Street		JOB NO.: # 60045450.04		1 of 1	5076
		Bridgepo	rt, CT		LOCATION:		Elevation	
DRILL	CONTRAC	TOR:	Glacier Drillin	σ	N: ENG/GEO: Seremet/Kantor	(100) 84	55000	
DRILL	RIG:	Geonrobe	54LT		IDRILLER 7/1/1/2/	30 CP	BEGUN : FINISHE	
Hole Si	ize:	-/	Weather:	21.	Suny	Ground Water	(Depth/Elev	.):
Drilling	Method:		-1.		30-71			
Dining	, wiethou .	Direct pu			Drilling Fluid : None	Top of Rock (I	Depth/Elev.)	: 4
Depth	Sample	PID	Blow Count	Sample				
Берш	Type/No.	(ppm)	(per 6 in.) or Drilling	Recovery or REC &		DESCRIPTION	1	STRATIGRAPHIC
	турстто.	фин	Rate(min/ft)	RQD	NOTE: Depths read from top of	recovered sample		DESCRIPTION
-				34=				<u> </u>
-	0-59				For Brun Sand It polt from black m son Fire brown raw (c			
	0-59 5412				F-M Brun Sand	V-1		
	1028				It to de from	Franke		1
	23-70				black man	1 ()	4. /	(((?)
	747 7 ~				Fire brown saw le	lay	9 (1	iph (Fil
	72-37-				r3({			
H		· · · · · · · · · · · · · · · · · · ·						
		····						
+			<u> </u>					
						, a, a, a, a, a, a, a, a, a, a, a, a, a,		
		-						
					Asseyle	0-2	0-14=	2
						2-9-1	13-34	-
	avenue.							
	TYPES: T SPOON		Trace 0 to 5%	SPT Resist	ance		·	Approved/Date
	LBY TUBE		Little 15 to 25%	5-9 Loose	ss Density: 0-4 V. Loose 10-29 Med. Dense	Cohesive Consistency:		
	CORE		Some 30 to 45%	30-49 Dens	e 50+ V. Dense	3-4 Soft, 5-8 M/Stif 16-30 V. Stiff, 31-		I

1etcalf & Eddy, Inc. ENGINEERS	MONITORING WELL	L CONSTRUCTION DETAIL	
:			Metcalf & Ed
ROJECT: (0043450.09		SHEET WE	ELL NO.
TE LOCATION 30 HASTINGS Prideas CT RILL CONTRACTOR: Claver STALLATION METHOD:	JOB NO:	1 of 1	MW-2
30 HASTINGS	LOCATION:		Elevation: Total Depth:
Pridups CT	N: /	E:	7
RILL CONTRACTOR: Claurer	ENG/GEO: Serente 181	hores DRILLER: JANN	DATE: 12/23/0%
STALLATION METHOD:	Con los		TIME:
PE OF MONITORING WELL:	Coprofit		Ground Water (Depth/Elev.)
	Ground Elevation:		wer p 16"
MATERIALS USED			
	Top of Riser Elevation :		
Sched 40 pV (1° 0.01 screen 2° SAND 1 Rodbox 6 white			
THE !			Vented Cap
0.00 3000 7			
	***************************************	000000000000000000000000000000000000000	***************************************
SAND		1.2	I.D. of Riser
Calbox		=	Pipe:
e haite			Type of Pipe: Sty 401
b.w.			
			Type of Backfill Around
			Riser $\int_{\mathcal{O}_{\mathcal{V}}} ($
			-
	L1=		
•	L2= 0.5	L5	Top of Seal:
	L3= 0, ζ		
	L4= 2	13	Type of Seal Material: betaje
	L5= 1.160.0 1/.0		Material:
	TO THE HE		
		1.7	1
	L7= 3		
			Top of Filter:
			Type of Filter
			Material: SAND
		1 14 1	Material.
			- 01
		1.6	Size of Openings: 6.0
			Diameter of Monitor Well
·			Tip:
	İ	I W William	
		V	Bottom of Boring:
			_
			Elevation:
			Boring:
			DOUME:
ARKS:	Soil WAS WAT	From 16 m 36"	/
	on hed mely	7,700	but no fine water in all
refusit p		· · · · · · · · · · · · · · · · · · ·	

ENGINEERS	Promisor WE	LL CONSTRUCTION	JN DETAIL	
ROJECT: PRO HASTING	6 4 7			Metcalf &
ROJECT: BO HASTING ITE LOCATION	1		SHEET WE	LL NO MW-7
BAINGEPORT CT	JOB NO:		l of l	111N-1
	LOCATION:			Elevation: Total Depth
RILL CONTRACTOR: GLACIER	N:	E:		
ISTALLATION METHOD	ENG/GEO: Serenet	/Slave S DRILLER	Jusin	DATE: 12/23
ISTALLATION METHOD:	/			TIME: 1/00
YPE OF MONITORING WELL: Ove	burden	· · · · · · · · · · · · · · · · · · ·		Ground Water (Depth/El
MATERIALS USED	Ground Elevation:			
MUTERIALS USED	Top of Riser Elevation :		· 	
(H 40 PV/				
SH 40 Pr	}	A		
a · C····		Tu		Vented Cap
U. G. St. to	***************************************			KOMPEK
	*************************************		│	
	1	1.2	- -	I.D. of Riser / '
				· · · · · · · · · · · · · · · · · · ·
				Type of Pipe: SCHE,
				Tomas CD 1 CV 4
				Type of Backfill Around
			1 1 1	Riser
	L1=		1 1	
		 V 		
	L2=	<u></u>		Top of Seal: 6 Ch tu.
	L3=			Type of Seal
	L4= 2.5	13		Material:
•	L5= 10%			Material.
	L6= day	L7		
	L7= 7,5			
	" -):	<u>\</u>		
				Top of Filter:
•	`	_\V_ \ <u>1</u>		Type of Filter
		/\ iii		Material: (AND
		L4		
				Size of Openings: 0.0
		L6		Size of Openings:
				,
				Diameter of Monitor Well
•				Tip: 2
	İ	J, <u>W Vi</u>		· ····
		<u>W</u> i		Bottom of Boring:
				Elevation:
	M	K	<u> </u>	D': 4
	W.	. `	. –	Boring: 2
ARKS:	retusal B	315 640	rully	
	t			
			,	
RMS\Field Forms\[WellConstruction.xls]Well	Comptention			The state of the s

Metcalf & Eddy, Inc. ENGINEERS	MONITORING WELL CONSTRUCTION DETAIL	NS
ROJECT: ED HATTURES P		Metcalf & E
ITE LOCATION	JOB NO: SHEET WELL NO.	-4
01,00 5 8 20 %	LOCATION	
DRINCEPORT, CT	N: E:	Total Depth:
RILL CONTRACTOR: GLACIER		2/22
ISTALLATION METHOD	TIME:	21+6
CRUPRORE		Vater (Depth/Ele
YPE OF MONITORING WELL:	Ground Elevation :	wy ()
MATERIALS USED	Ground Elevation :	7
	Top of Riser Elevation :	
_		
Filterand	Vented Cap	ı
٠,		
		·····
	POOCOOCOOCOOCOOCOOCOOCOOCOOCOOCOOCOOCOOC	***********
	I.D. of Riser	
	L2 Pipe:	
	Type of Pipe	e: SCEI
		pre
	Type of Bac	kfill Around
	Riser	
		
	L1= //	
	L2= 0.5	
	L3= Top of Seal:	647.
	Type of Seal	
	L4= 3' L3 Material:	
	L5= <u>Nn 4</u>	
	L6= 1/1 L7	
	L7= 4.5	
	Top of Filter	
	Type of Filte	
	/\ Material:	SAND
	Size of Openi	nos: /
	[L6]	<u></u>
	Diameter of M	Aonitor Well
	Tip:	
	W Bottom of Bo	ring:
	Elevation:	
	Diameter of	
	Boring:	2
ARKS :	refusit a correct tis has	
		

etcalf & Eddy, Inc. ENGINEERS	MONITORING WELL	CONSTRUCTION DE	TAIL
OJECT: SU HAMING	P. 14	SHEE	
E LOCATION	JOB NO:	1 of 1	141
Bridge port CT	LOCATION:	Т	Elevation: Total Depth:
ILL CONTRACTOR: (16/1/C	N:	E:	Elevation: Total Depth:
TALLATION METHOD	ENG/GEO: Shores Ser	enc / DRILLER: Jas	
drea &	ush gaprobe		TIME: 10:30
PE OF MONITORING WELL:			Ground Water (Depth/Elev.)
MATERIALS USED	Ground Elevation :		
	Top of Riser Elevation :		,
0.7			Vented Cap
0.5=1° set touleur			***************************************
_ /	**************************************	**************************************	
2 0,01 sines		12	I.D. of Riser
,			Pipe:
			LD. of Riser Pipe: Type of Pipe: School:
			Type of Backfill Around
			Riser (2000)
	6		
	L1=		
	L2= 0.25		Top of Seal: Gentrate
	L3= 0,25		Type of Seal
	1.75	13	Material:
•	LS= Docky		Waterial:
		L7	
	L.7= 2.5		
			Top of Filter:
		-\ <u>\</u>	Type of Filter
i		/ \	Material: Sand
		LA LA	
İ	•		Size of Openings: 0.6
,		1.6	one or openings.
1 cines			D'
7 50			Diameter of Monitor Well
2.5 509			Tip:
2 x sun . 25 6 6 mt.		V <u>* * * * * * * * * * * * * * * * * * *</u>	Rattom of Posts
İ			Bottom of Boring:
			Elevation: Diameter of
.]			· //
			Boring: 2'
RKS:	Das' MENSIA	6 edeus	\
		D ~01015	

									Sa	Well # Imple Time Page Date		MU 115-11 1 of 1 01/061		? 1315-1
Project Name Project Number Location (Site/Fa Pump Intake dep Identify Measurin	th (ft below MP)) :	80 H	60049 astings St,	Bridgeport, C	т 	hundred Depth t	to water(in Iths of a foot) o Bottom(in Iths of a foot)	ز رہند	Riser 26	7	Γορ of Prot	ector	
Diameter of Well Purging Device; (Weather:		- γ <u>mίl</u> 4	Protector PID Peristaltic p		ss - -				Labeled Locked Condition	Cond yes yes		Well no Poor	1	
Clock Time	Water Depth below MP	Pump Dial ¹	Purge Rate	Cum. Volume Purged	Temp.	Spec. Cond. ²	pН	ORP/ Eh ³	DO	Turb- idity	Comme	ents		
24 HR 1013 1019 1024	1 3, 35 3, 45 3, 45		ml/min 150	gal	°c 7,73 7,86	иS/cm 32.13 32.47 31.62	s.u. 6-73 7.10	143,5 143,1	mg/L i,23 0,58 0,36	133 72.6 52.8				
1029	3,44 3,45 3.6 3.6		162 180 165		3.06 3.01 5.10	3174 3210 3173	7,17	137.5 121.3 129.3	031	7.56 150 50.7				
1059 5059	3.6 3.6 noled	ତ	165 165	-114	\$:13 3:17	3120 3544 VOCs,	7.19 7.20	128.3	0.25	45 28.1				
AF.		C Her Q	~	ells	335	el not	9, e	1 1	re-sa	nple	d)	rde,		
	5UP?	S	tal	×en	for	- 91		900	lyte.	ι	<u> 41</u>	jue,		
. Pump dial setting (300rpm 3/4 speec	i)												
, µSiemens per cm (, Oxidation reductior), Per work plan if pa ield Personnel -	potential (standa	ard for Eh)	30 minutes , ca - -	ollect sample	and document.		Signature of	Sampler	n G	De la companya della companya della companya de la companya della				

										Well #	$M \nu$	V ~)
									Sa	mple Time		
										Page	of	1
										Date	-	06/09
Project Name			Gr		Monitoring				Top of	Riser	Top of P	rotector
Project Number	allita a Name and a			6004				to water(in	-7	10		
.ocation (Site/Fac Pump Intake dept			80 H	astings St,	Bridgeport, C	Т		ths of a foot)		1,0		
dentify Measuring		١.	Riser	46	SS	-		Bottom(in the the the the the the the the the the				
acriary meadaring			Protector		SS		- nanarea		L			
iameter of Well	<u>ı"</u>	-	PID		-							
urging Device; (p	nump type):		Peristaltic p	numn							ition of Well	· · · · · ·
0 0	cloud				-				Labeled	yes	ng (ng	
/eather:		1 mil	1 3 80k	•					Locked Condition	Good	no	
				-					Condition	G000	Poo	or
Clock	Water	Pump	Purge	Cum.	Temp.	Spec.	pН	ORP/	DO	Turb-	Comments	·
Time	Depth	Dial ¹	Rate	Volume		Cond. ²	[[Eh ³	50	idity	Comments	*
	below	1		Purged		00.10.	1			sony		
	MP	,	İ	Luigea		1						٠-,
24 HR	ft		ml/min	201	~ ℃					-		
=:/		-	1 CHATTING	gal		μS/cm	s.u.	mv	mg/L	NTU		
		\vdash			<u> </u>		<u> </u>					·
Pumo	1-0		(L 1	\	<u> </u>	1		-			
12ny	946	<u> </u>	GW	tal	<i>⊳l</i> €	down	bet	b/e	Sond	2 (10 cld	
[142]		<u> </u>	1	1731	ļ <u>.</u>	· · · · · · · · · · · · · · · · · · ·	60					
411	<u>~~</u>		0/10	Dia	107	50+	Ficib.	117	recha	~gl	dar	
	·							1	,	0		
gralo	<u> </u>	mpk.										
<u> </u>		\										
						·						
												,%
						-						
	· · · · · · · · · · · · · · · · · · ·											
												
												
							`		T		10	
			l									
omp dial setting (3 Siemens per cm (s	00rpm 3/4 speed) m at 25°0			L							
eduction reduction	potential (standa	rd for Eh)										
er work plan if par	ameters do not st	labilixe after	30 minutes , co	ollect sample	and document.							
d Personnel	ا سر										>	
_	Shor	<u>es </u>	-					_	Ml			•
_	G	sh_				;	Signature of	Sampler /	1			
			-					. •		· ·		

									Sar	Well # mple Time Page Date	MW-	<u>S</u>
Project Name Project Number Location (Site/Fac	ility Name):			60045	Monitoring 450 Bridgeport, CT	-	Depth to	o water(in hs of a foot)	Top of	Riser	Top of Protector	
Pump Intake deptl Identify Measuring Diameter of Well			Riser Protector PID	PVC	SS SS			Bottom(in hs of a foot)		,		
		-			-						tion of Well	
Purging Device; (p	Cloudy	mi	Peristaltic p	38°1	=				Labeled Locked Condition	yes yes Good	Peor	
Clock Time	Water Depth below	Pump Dial ¹	Purge Rate	Cum. Volume Purged	Temp.	Spec. Cond. ²	pН	ORP/ Eh³	DO	Turb- idity	Comments	
24 HR	MP ft		ml/min	gal	°C	μS/cm	S.U.	mv	mg/L	NTU		_
Wat	er to	He	w	وعـ٧	red	j~st	about	= both	om of	we	U	\exists
(25	5' VS	2.6')	Rm	yie	lded	only		د اله	+	ubi'ng,	4
10	GW		20	٤	ampl	1 p	.५५१	С,			-	_
												4
												\exists
												4
												4
												4
												4
. Pump dial setting (p. µSiemens per cm . Oxidation reduction). Per work plan if pa	(same as µmhos/o n potential (standa	cm at 25°C ard for Eh)	30 minutes , o	collect sampl	e and document							コ
Field Personnel	Sho	ores is h					Signature of	Sampler	J.	R	~	
	ی	515 V			.		÷				3944 Maria	_

									Well #	M_*	W-4
					,		en Mariante de la companya de la companya de la companya de la companya de la companya de la companya de la compa	, Sa	mple Time		
					المرين	6 6	er or her		Page		of \
									Date	è	106/09
Project Name		Gre	oundwater	Monitoring				Top of	Riser	Ton	of Protector
Project Number			60045			Depth	to water(in	(S)	Samp 1	100	OI I TOLECTOI
Location (Site/Facility Name):		80 H	astings St,	Bridgeport, C	Г	hundred	ths of a foot)	190	- //		
Pump Intake depth (ft below I					-	Depth to	Bottom(in	, ,	_		
Identify Measuring Point (MP)	ī.	Riser Protector	PVC	SS		nunarea	ths of a foot)			<u> </u>	
Diameter of Well		PID		SS -						-	
Purging Device; (pump type):		Peristaltic p	oump					Labeled	Cond	ition of Well	no
			_	•				Locked	yes		110
Weather:	loudy	mild	38°F					Condition	Good		Coor
	/										
Clock Water	Pump	Purge	Cum.	Temp.	Spec.	pН	ORP/	DO	Turb-	Comments	
Time Depth	Dial ¹	Rate	Volume		Cond. ²		Eh ³		idity	1	·
below			Purged						1		
MP											· I
24 HR ft		ml/min	gal	℃	μS/cm	s.u.	mv	mg/L	NTU		
	1 - 1										
water tel	ple e	rawn		low	well	aln	los-	Imu	ed la	tely	
atter S	ra-+11	. 0.	MD:	wat	er dre	2	7 6~		21	1	
		7	4.		<u> </u>		1 2	C2 /V	41-26	1 T	
all H	ų	way	+	hora	7	2612		30 Sc	110 M2	_	
				· · · · /		7			1		
possible.											
V											
								-			
·											
Pump dial setting (300rpm 3/4 sp µSiemens per cm (same as µmh Oxidation reduction potential (sta). Per work plan if parameters do no	os/cm at 25°C	30 minutes, co	ollect sample	and document.	_			ł			
ield Personnel	na.be c								61	/	
	201	-				Cianatura - 1	0	100			
G	113	-			;	Signature of	Sampier		\Rightarrow	<u> </u>	

							19	intello	1.75 Sar	Well # mple Time Page Date	1 of 1 01/06/6 9
Project Name			Gro	undwater	Monitoring			\	Top of	Riser	Top of Protector
Project Number				60045	-			water(in	116		
Location (Site/Fac			80 Ha	stings St, I	Bridgeport, CT		hundredt	hs of a foot)	4 V #		
Pump Intake depti								Bottom(in	/ / :		
Identify Measuring	Point (MP):		Riser (PVC	SS		nunareat	hs of a foot)			
Diameter of Well	Z "	<u>.</u>	Protector PID	PVC	SS -						
Purging Device; (p	ump type):		Peristaltic p	ump					Labeled	Condi yes	ition of Well
		1.0			•				Locked	yes	100
Weather:	Cloud 1	mild	38° F	•					Condition	Good	
Clock	Water	Pump	Purge	Cum.	Temp.	Spec.	Hq	ORP/	DO	Turb-	Comments
Time	Depth	Dial ¹	Rate	Volume	,	Cond. ²	·	Eh ³		idity	
	below			Purged						,	
	MP			,							`.
24 HR	ft		ml/min	gal	°C	μS/cm	s.u.	mv	mg/L	NTU	
								`			
Water	- lev		did	not	Pal	water	- +	able.	wat	٦/ ٥	table
					`						· · · · · · · · · · · · · · · · · · ·
ίŝ	relow	ω ω	<u>e11</u>	(1/2	bedr	ocle)	No	Samo	10 D	055	ble.
									(, ,
	·			<u> </u>							
:											
1. Pump dial setting 2. μSiemens per cm 3. Oxidation reduction 4). Per work plan if pa	(same as µmhos/o n potential (standa rameters do not s	cm at 25°C ard for Eh) tabilixe after	30 minutes , o	collect sampl	e and document.				·		
Field Personnel	Nove	٤							/A		
	Shore	r					Signature of	Sampler		5	



49 Woodside Street Stamford, CT 06902

January 2, 2009

Metcalf & Eddy, Inc. An AECOM Company 860 North Main Street Ext. Wallingford, CT 06492 Attn.: Lucas Hellerich

Re:

80 Hastings Street (TCLP Results)

Bridgeport, CT

Dear Mr. Hellerich:

On September 9 and December 23, 2008, I visited the above referenced site to perform pre-demolition lead sampling of different building materials on the three sections of the building that will be disturbed during demolition activities. Painted materials that will be disposed of during demolition were sampled for soluble lead (TCLP test) to determine if they could be disposed of as general construction waste.

The samples collected were delivered to Schneider Laboratories were they were analyzed by EPA SW846 Method 1311 (TCLP) with lead analysis by EPA 7420 method. The results of the analysis were as follows:

MATERIAL	RESULT	EPA LEVEL
Section #3 Interior Brick Wall	<0.2 mg/L	5.0 mg/L
Section #3 Interior Block Wall	0.6 mg/L	5.0 mg/L
Section #3 Interior Wood	1.4 mg/L	5.0 mg/L
Section #1 & #2 Outer Block Wall	2.0 mg/L	5.0 mg/L
Section #3 Outer Block Walls	0.2 mg/L	5.0 mg/L

The results of the analysis showed that all of the materials to be disturbed are below the EPA level of 5.0 mg/L. In consideration of the laboratory results, the material can be disposed of as general construction waste. Detailed laboratory results are attached to the report.

If there are any questions, comments or concerns please do not hesitate to reach me at (203) 324-3635. Thank-you.

Sincerely,

James Twitchell HYGENIX, Inc.

SCHNEIDER LABORATORIES

NCORPORATED

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • (FAX) 804-359-1475

Excellence in Service and Technology

AIHA/ELLAP 100527, NVLAP 101150-0, NYELAP/NELAC 11413, CAELAP 2078, NC 593, SC 93003 LABORATORY ANALYSIS REPORT

Lead Analysis based on EPA 7000B Method and EPA SW846 Method 1311 (TCLP)

Using SLI P33 A14

ACCOUNT #:

117-08-1634

CLIENT:

HYGENIX, INC.

ADDRESS:

49 Woodside St

Stamford, CT 06902

PROJECT NAME:

JOB LOCATION: 80 Hastings St

PROJECT NO.:

PO NO.:

DATE COLLECTED:

9/9/2008

DATE RECEIVED:

12/26/2008

DATE ANALYZED:

12/30/2008

DATE REPORTED:

12/30/2008

Sample Type:

TCLP

SLI Sample No.	Client Sample No.	Sample Description	initial bH	Lead Conc. (mg/L)*	
30018577	01	Section 3 Int Brick Wall	9.40	< 0.2	
30018578	02	Section 3 Int Brick Wall	8.73	0.6	
30018579	03	Section 3 Int Wood	6.77	1.4	
30018580	04	Section 1&2 Outer Walls	6.84	2.0	
30018581	05	Section 3 Outer Walls	8.85	0.2	
Analysis Rur	n ID: 42798				

Analyst:

ABISOLA O. KASALI

Total Number of Pages in Report: 1

Results relate only to samples as received by the laboratory.

Reviewed By

Mohammed Eitilib, Analyst

Visit www.slabinc.com for current certifications.

Minimum Reporting Limit: 0.2 mg/L lead concentration. EPA Regulatory Limit is 5:0 mg/l. All internal QC parameters were met. *Data precision justifies 2 significant figures. Unusual sample conditions, if any, are described. All testing is performed in strict accordance with Schneider Laboratories, Inc. protocol. Note on measurement units: mg/l = ppm (parts per million)

	•=	
\		
\	(A)	ı
1		•

SCHNEIDER LABORATORIES, INC.

Cao Use-WO#		- 201011	Acci#		7.5.5
Sittem Hills	CHA SUNGAN RICHARD		देश संग्यंत्रायक वर	Stauther, 07 04090	;

NOTE: All samples for organics should be kept at 4°C from collection until testing. Schedule rush analyses to advence. Indicate preservatives added & media type. ORGANICS TESTS and other Analyses Indicate analysis method for organics tests. 1-283-324-3635 203-324-3876 TCLP / Full (w/ organics) Special Instructions [include requests for special reporting or data packages] TCLP / RCRA Metals TCLP / Lead RCRA Metals Lead Tests / Analytes (Select ALL that A ប Asbestos Bulk / Asb ID FOR ASBESTOS AIR:] PLM (EPA Point Count)] CAELAP (EPA Interim) TYPE OF RESPIRATOR] PLM (Qualitative only)] PLM (EPA 600, 1982) J NYELAP 198.1/.4/.6 TEM (Chatfield) STATE WHERE SAMPLES WERE COLLECTED Asbestos Air/Fiber Count SINCA - XRD (NIOSH 7500)] Silica - FTIR (NIOSH 7602) Resp. Dust (NIOSH 0600) Total Dust (NIOSH 0500) 804-353-6778 * 800-785-LABS (5227) * Fax 804-359-1475 TEM (EPA Level II) 2512 West Cary Street, Richmond, Virginia 23220-5117 PCM (NIOSH 7400) e-mail: info@slabinc.com TEM (AHERA) Matrix (Sample Type (Select ONE) matrix type. Use additional forms as needed. 80 lestings of Bridgest All samples on form should be of SAME] Wipe, Composite Water, Drinking] Wastewater J Compliance] Waste www.slabinc.com Sofid] Wipe] Hi-Vol Filter (PM10)] Hi-Vol Filter (TSP) Aqueous] Sludge] Paint 188 F ō STANDARD (5 bus. days)] Standard Full TCLP (10d) Schodule rush organics, multimetals & weekend tests in advan not available for all tests Turn Around Time 'urchase Order No.: roject Location: 2 business days* 3 business days* roject Number: 1 business day Project Name: Same day* Weekend*

		Organica													-	
		Salling		Wipes		Infor	Information for Air Samples	Air Samples			Organics				_	
# clause	Date	Time	Sample Identification	Wiped	Type1	Time ²	2	Flow Rate	ate	Total	LOS #				-:	
Sample #	Sampled	Sampled	(e.g. Employee, SSN, Bidg, Material)	Area (ft²)	A.B.P.E	Start	Stop	Start	Stop	Air Vol	tainers					
0	DI 0969		Section #3 (Integer Brick Wall)	. ;					ļ 			:				
F	-		Section#3 (Interior Block Wall)													
8	>		Section#3 (Interno Wood)													
5	13/33		Section #1+#2 (Outer Walls)					:				:				-
8	→		Section #3 (Outer Walls)					 				1				
	-					-									,	
									-			. 1				
						-										
	TO THE PARTY OF TH	S. Collection				;										
	Z	14	:::		realog Bedjan	Ignormanda Brigank Febersonal Esextusion BeginningEnd of Sample Period 'Pump Calibration in Literaffilmute	excursion .t.	segnning/End	of Sample Per) dumd, pop	alibration in Lit		Volume in Life	ers time in m	*Volume in Liters (time in min * flow in L/min)	nio.]
*	7	5	ALL POWER OF THE P	۱		DATE/TIME	TIME)						[] Sample return reguested	third reduce	Seferi	

1

[] Sample return requested

ပ္စ

A Ambient temp [] Cool

[] PH_[] JCI_[] IR[] IS

IDATE TIME! DATE/TIME

ISIGNATURE [SIGNATURE]

WAYBILL #

JFX [JDHL (PAPS) JUSM [] HD |] DB | JCOURIE

Inusual Sample Condition Noted:

Refinquished to lab by [NAME] Received in lab by [NAME]_ 284 Gain of Custody documentation continued internally within lab.

REVISED PRE-DEMOLITION LEAD-BASED PAINT SCREENING

INSPECTION SITE:

80 Hastings Street

Bridgeport, CT

CLIENT:

Metcalf & Eddy, Inc.
An AECOM Company
860 North Main Street Ext.
Wallingford, CT 06492
Attn.: Lucas Hellerich

INSPECTOR:

James Twitchell (CT Lead Inspector/Risk Assessor - 001822)

INSPECTION DATE:

September 9, 2008 & December 23, 2008

SITE INFORMATION:

Type of Buildings:

Commercial

Type of Survey:

Pre-Demolition Lead Screening

of Samples: 49 (09/09/08) 81 (12/23/08)

BACKGROUND

James M. Twitchell performed the pre-demolition lead-based paint screening, for the above mentioned building, on September 9, 2008 and Jason Gemmell did the follow-up inspection on December 23, 2008. The purpose of the inspections is to give a general idea as to the presence and location of lead-based paint (LBP) on the interior and exterior surfaces of the buildings and determine if TCLP lead samples are required. The lead content of the paint on building components was analyzed at the site using an X-Ray Fluorescence Analyzer (Niton XI. & Niton XI.p 300A).

INTRODUCTION

Paint containing high levels of lead has been widely used on houses, apartments and commercial buildings. Although lead-based paint was phased out during the 1970's, many buildings constructed before this time still contain layers of the older lead-based paint.

Exposure to lead-based paint may cause a variety of adverse health effects. Children are particularly susceptible to the effects of lead exposure and may suffer subtle learning deficiencies from ingestion of lead paint chips and/or inhalation of lead dust. Extensive regulations have been developed by State and Federal agencies to address the problem of lead exposure in homes, in child day care facilities, in the workplace, and in the environment.

XRF LEAD-BASED PAINT SCREENING SURVEY (see Attachment 1)

The lead content of paint was tested on the interior and exterior of the buildings using an X-Ray Fluorescence Analyzer (Niton Model XL & XLp 300A).

The Niton analyzer is a screening device capable of measuring the lead content of surfaces covered with multiple layers of paint. The Niton XL & XLp 300A readings are not affected by the composition of the substrate materials. Each time the Niton XL & XLp 300A is turned on, an electronic calibration is automatically performed. Prior to testing and periodically throughout the survey, the calibration of the analyzer is checked on a surface with a known lead concentration.

Protocols for the assessment of lead in paint are outlined in guidelines published by the US Department of Housing and Urban Development (HUD) and in regulations enforced by Connecticut Department of Health Services (CT-DOHS). In accordance with these protocols, the results of testing with the Niton XL & XLp 300A may be interpreted as follows:

Toxic Levels of Lead = Readings greater than or equal to 1.0 mg/cm2*

*Note: OSHA does not currently define a threshold level of lead in paint, which may cause exposure above the action level (AL) and/or permissible exposure limit (PEL). OSHA requires exposure monitoring when lead is identified in paint at any amount to determine lead dust levels.

RESULTS

Of the one hundred and thirty (130) readings collected at the site, fourteen (14) of them were for calibrating the machine and five (5) surfaces were identified as lead containing. All similar surfaces, to those found to be lead containing and not tested, should be assumed positive for lead. The following is a list of items that were identified as lead containing:

- 1. Section #3 -- Interior Window Casing
- 2. Section #3 Interior Concrete Walls
- 3. Section #3 Interior Brick Walls

The results of this survey are shown on the attached XRF data sheet and the general location of positive samples is noted on the attached maps.

LIMITATIONS

HYGENIX, Inc. has performed its services, within the limits prescribed by our clients, with the usual thoroughness and competence of the industrial hygiene profession.

The findings in this report are based upon observations and information available to the inspector during the time of the rendering of the services as described in this report and are based on procedures currently required by applicable laws, regulations and ordinances. HYGENIX cannot be responsible for conditions or materials the inspector did not observe due to lack of access or was not otherwise reasonably observable. The conclusions in this report are professional opinions based solely upon these findings. The findings and conclusions are intended exclusively for the purpose outlined herein within the scope of work and at the site location and project indicated.

This report is for the sole use of the client. The scope of work performed in execution of this inspection may not be appropriate to satisfy the needs of other users and any reuse of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said user.

Inspector

Date 0/02/09

XRF FIELD DATA 80 HASTINGS STEET BRIDGEPORT, CT

Serial #XL309-U698NR8351 Site: 80 Hastings Street, Bridgeport, CT Date: 9/9/2008

			-,,-				#Due No.	Feat	Date/Time	Cycle	Result	Pbc * Prec
o :	XLNo	Site	Insp	Side	Room	Source	Sub	Lést	9/9/2008 14:45:28	1 of 1		1.17 ± 0.20
	2	(2277	JMT		Calibrate				9/9/2008 14:46:02	1 of 1		1.08 ± 0.51
L	3		JMT		Calibrate				9/9/2008 14:46:26	1 of 1	POS	1.31 ± 0.30
ľ	4		JMT		Calibrate				9/9/2008 14:49:18	i of i	NEG	0.00 ± 0.01
	5		JMT	A ·	Section #1	** ***	Concre		9/9/2008 14:49:54	1 of 1	NEG	0.00 ± 0.02
, 5	6		JMT	В	Section #1	Wali	Concre		9/9/2008 14:50:36	1 of 1	NEG	0.00 ± 0.07
	7		JMT	Ç	Section #1	Wall	Concre		9/9/2008 14:51:13	i of i	NEG	0.00 ± 0.04
7	8		JMT	Ď	Section #1	Wall	Concrte		9/9/2008 14:51:45	1 of 1	NEG	0.00 ± 0.01
B	9		JMT	В	Section #1	Door	Wood	. .	9/9/2008 14:52:16	1 of 1	NEG	0.00 ± 0.02
9	10		JMT	č	Section #1	Door	***	Casing	9/9/2008 14:52:36	iofi	NEG	0.22 ± 0.16
.0	11		JMT	č	Section #1	Door	Metal	Jamb	9/9/2008 14:53:35	i of i	NEG	0.01 ± 0.02
1			JMT	Ď	Section #1	Stairs	Metal		9/9/2008 14:54:22	1 of 1	NEG	0.00 ± 0.01
12	12 13		JMT	B	Section #1	I-Beam	Metal		9/9/2008 14:55:01	lofi	NEG	0.00 ± 0.01
13			JMT	ã	Section #1	Railing	Metal			1 of 1	NEG	0.00 ± 0.01
14	14		IMT	Ā	Section #2	₩ali_	Drywali		9/9/2008 14:55:38	1 of 1	NEG	0.17 ± 0.18
15	15		JMT	Ä	Section #2	I-Beam	Metal		9/9/2008 14:56:21	lofi	NEG	0.00 ± 0.04
16	16		JMT	Â	Section #2	Door	Wood		9/9/2008 14:57:09	i of i	NEG	0.00 ± 0.01
17	17		JMT	Ä	Section #2	Door	Metal	Casing	9/9/2008 14:57:29	1 of 1	NEG	0.01 ± 0.10
18	18		JMT	Ä	Section #2	Wall	Concrte		9/9/2008 14:58:16	1 of 1		0.00 ± 0.02
19	19		JMT	Ĉ	Section #2	Wall	Concre		9/9/2008 14:59:08	lofi		0.09 ± 0.30
20	20		JMT	Ă	Section #2	Door	Metal	Jamb	9/9/2008 14:59:46	1 of 1		0.00 ± 0.09
21	21		JMT	Â	Section #3	Wall	Concrte		9/9/2008 15:00:20	iof		0.02 ± 0.20
22	22		JMT	Ä	Section #3	Wali	Concrts		9/9/2008 15:01:02	1 of 2		0.00 ± 0.05
23	23		JMT	B	Section #3	Wali	Concrte		9/9/2008 15:01:43			0.00 ± 0.11
24	24		JMT	B	Section #3	Wall	Concre		9/9/2008 15:02:07			0.03 ± 0.16
25	25		JMT	Č	Section #3	Wall	Concrte		9/9/2008 15:03:52			-0.46 ± 0.92
26	26		JMT	_	Section #3	Wall	Concre		9/9/2008 15:04:21			0.06 ± 0.36
27	27		JMT		Section #3	I-Beam	Metal		9/9/2008 15:05:20	-		0.00 ± 0.03
28	28		JMI		Section #3	1-Beam	Motal		9/9/2008 15:05:46			0.00 ± 0.02
29	29		JMT		Section #3	Door	Wood	Jamb	9/9/2008 15:06:10			1.82 ± 0.63
30	30				Section #3	Window	Wood	Casing	9/9/2008 15:06:3	l lof		0.87 ± 0.37
31			JMT		Section #3	Interior Wall	Brick		9/9/2008 15:07:2	llof		1.65 ± 0.59
32			JMT		Section #3	Interior Wall	Concrte		9/9/2008 15:10:5	2 1 of		0.00 ± 0.02
33			JM7		Section #3	Window	Wood	Casing	9/9/2008 15:12:1:	5 1 of	_	0.15 ± 0.29
34			JMT		Section #3	Shelves	Wood		9/9/2008 15:12:3			0.01 ± 0.23
35			JMT		Section #3	Interior Wall	Wood		9/9/2008 15:12:5	9 1 of		0.00 ± 0.04
36			JMT			Door	Wood	Jamb	9/9/2008 15:14:2	7 1 of		0.02 ± 0.33
37			JM			Wall	Concrte		9/9/2008 15:15:2	5 1 of		0.12 ± 0.15
38			JM			Wali	Concrte		9/9/2008 15:15:4	2 1 0		0.00 ± 0.01
39			JM		Section #3	I-Beam	Metal		9/9/2008 15:16:1	6 10		0.00 ± 0.00
40			JM		Section #3	I-Beam	Motal		9/9/2008 15:16:5	2 10		0.00 ± 0.01
4			JM			1-Beam	Metal		9/9/2008 15:17:3	7 10		0.01 ± 0.22
43			JМ		Section #3 Section #3	I-Beam	Metal		9/9/2008 15:18:1	[]] []		
4:			JM		Exterior	Wall	Concre)	9/9/2008 15:19:	6 10		
4			JM		Exterior	Wall	Concrte		9/9/2008 15:20:0	9 10		
4			JM		Exterior	Wali	Concrte		9/9/2008 15:20:	34 10		
4			JM			24 106-			9/9/2008 15:21:	42 1 a		
4			JM		Calibrate				9/9/2008 15:22:	15 1'a		
4			JM		Calibrate				9/9/2008 15:22:	49 1 0	fi POS	117章玉 介气
4	9 4	9	JM	r a	Calibrate							



						_						-,-				`		-"			•						;;										*	06-71-91 68X80-10
	•		٠																						;;;						;;							610
	<tob) ong<="" th=""><th><100:005</th><th>KICED: 0:07:-</th><th>< IOD: 003</th><th>. £0:0:001></th><th><lod: 0.03<="" th=""><th>< LOD : 0.03</th><th>< EOD: 036</th><th>80'0: QOI ></th><th>< 1.00 : 1.74</th><th>< 10D:004</th><th><10D:004</th><th><100-001</th><th><100:003</th><th>< EQD: 0.03</th><th><1.00:006</th><th>kinin: ság</th><th><10D:007</th><th><10m t001</th><th>190 ± 020</th><th>£60 ± 0.20°</th><th><tod: 846<="" th=""><th><. 100 : 157 ></th><th><iod:#33< th=""><th>2.00 ± 1.10</th><th>260 ± 1.30</th><th>EDD: 0.00</th><th>3.00 ± 1.60</th><th><1000-0-00</th><th><1000;0003</th><th>< rop: (CD)</th><th><10D:43</th><th><100 cms</th><th><1.0D:005</th><th>LOD-ORC</th><th><10D:019</th><th><100 :00E</th><th></th></iod:#33<></th></tod:></th></lod:></th></tob)>	<100:005	KICED: 0:07:-	< IOD: 003	. £0 :0: 001>	<lod: 0.03<="" th=""><th>< LOD : 0.03</th><th>< EOD: 036</th><th>80'0: QOI ></th><th>< 1.00 : 1.74</th><th>< 10D:004</th><th><10D:004</th><th><100-001</th><th><100:003</th><th>< EQD: 0.03</th><th><1.00:006</th><th>kinin: ság</th><th><10D:007</th><th><10m t001</th><th>190 ± 020</th><th>£60 ± 0.20°</th><th><tod: 846<="" th=""><th><. 100 : 157 ></th><th><iod:#33< th=""><th>2.00 ± 1.10</th><th>260 ± 1.30</th><th>EDD: 0.00</th><th>3.00 ± 1.60</th><th><1000-0-00</th><th><1000;0003</th><th>< rop: (CD)</th><th><10D:43</th><th><100 cms</th><th><1.0D:005</th><th>LOD-ORC</th><th><10D:019</th><th><100 :00E</th><th></th></iod:#33<></th></tod:></th></lod:>	< LOD : 0.03	< EOD: 036	80'0: QOI >	< 1.00 : 1.74	< 10D:004	<10D:004	<100-001	<100:003	< EQD: 0.03	<1.00:006	kinin: ság	<10D:007	<10m t001	190 ± 020	£60 ± 0.20°	<tod: 846<="" th=""><th><. 100 : 157 ></th><th><iod:#33< th=""><th>2.00 ± 1.10</th><th>260 ± 1.30</th><th>EDD: 0.00</th><th>3.00 ± 1.60</th><th><1000-0-00</th><th><1000;0003</th><th>< rop: (CD)</th><th><10D:43</th><th><100 cms</th><th><1.0D:005</th><th>LOD-ORC</th><th><10D:019</th><th><100 :00E</th><th></th></iod:#33<></th></tod:>	<. 100 : 157 >	<iod:#33< th=""><th>2.00 ± 1.10</th><th>260 ± 1.30</th><th>EDD: 0.00</th><th>3.00 ± 1.60</th><th><1000-0-00</th><th><1000;0003</th><th>< rop: (CD)</th><th><10D:43</th><th><100 cms</th><th><1.0D:005</th><th>LOD-ORC</th><th><10D:019</th><th><100 :00E</th><th></th></iod:#33<>	2.00 ± 1.10	260 ± 1.30	EDD: 0.00	3.00 ± 1.60	<1000-0-00	<1000;0003	< rop: (CD)	<10D:43	<100 cms	<1.0D:005	LOD-ORC	<10D:019	<100 :00E	
	14、	Kegatin K1			Negative K	-	•		Negarius A	Negative <1	,,	Nepalitie </th <th></th> <th>Megatine </th> <th></th> <th>Negative <</th> <th>Negative Ici</th> <th></th> <th>· 文</th> <th>618 1</th> <th>Negative Be</th> <th>Y</th> <th>Mental C</th> <th></th> <th></th> <th></th> <th>Negative .</th> <th></th> <th>(A)</th> <th>egative <1</th> <th>(V)</th> <th>Megatine <</th> <th>Magnetic Ki</th> <th>Negative </th> <th>Megation</th> <th></th> <th></th> <th></th>		Megatine		Negative <	Negative Ici		· 文	61 8 1	Negative Be	Y	Mental C				Negative .		(A)	egative <1	(V)	Megatine <	Magnetic Ki	Negative	Megation			
Ž.	N A	T-,	,		Mes	10 ₇₄	. N.	S.	2	Ž.		N.C.	¥.	X.	,	Ž.	NG	Z		I		1	2	Į.			1			Ž.		2	1			ž		
OR NOTE	ORFICE	DIFFE:	OFFICE	OFFICE		h 1016						-						-,-		_					A. 3		Part .	Panel		_	1 1 3		外				·	
INSPECTOR		KC	900	MC:C:	JOG	90	. 90	8	9	90	20	CG		500	90	g	9	90	. 500	DG.	900	200	ĐŒ	OG	ice.	CC	. 50	gg	108	FOG.	989	900	50	900	.	9	i de	
4 77.6					a Juan bar													Γ	,										d			Γ			100		9	
) 4 P. F.	E.	Fersi		First	A. M.	Test		Ī	Fig.	First	I	Tax	i in	First	Tage 1	Œ	First		Fint	Ĭ	1	Į.	XIII.	Find		Pare		Wast	. Page	E	道。以	E		First	100	First		
Count	; ī			41				_			-					4			-	Karkovom	Enthrecan	Bathmenn		Outlinecen	Constant Property	Bad Supposes	224	_	100 m	_							: :	
OLOR	Weller .	Yellow	Yellor	Yellow	,				Yokow	Yellow	Yolow	Yellow				ica com	Yellow	E S	Yealton							White		1		1		ž.		A ST		Yellow		
CONORTION A DEGRE					ME.	3	2	2	Ţ. <u> </u>		, ř.	٤	32	F.	. GAE	ļ'''	-E			ME.	E	F.	ME.		T-		7		7	Γ	Ş.,	Γ	7	Γ		i.	1.	
	DEFECTIVE	DEFECTIVE	-DEFECTIVE	DEFECTIVE	DEFECTIVE	DEFECTIVE	EXECUTIVE .	DEFECTIVE	DEFECTIVE	DEFECTIVE	ECHICA	PATACI	MFE.ME	DEFECTIVE	DEFECTIVE	DEFECTIVE	DEFECTIVE	DEFECTIVE	DEPECTIVE	OBFECTIVE	DIFFERTINE	DIFFECTIVE	DEFECTIVE	DIFFECTIVE	PROFECTIVE	DEFECTIVE	SANT CITATE	DESPECTIVE	MOTETURE	DEFECTIVE	DESCRIPE	DEFECTIVE	TOWNER CITATE	DEFECTIVE	DEFECTIVE	DEFECTIVE	DEFECTIVE	
delle la	**	×		≤.	<u>*</u>	m	IJ.	G.	<u>.</u>	U	=	8 .	.⊀.	5 .	5 .	₹.	<u>.</u>	*		£	*	æ	a	L.	0	<u>m</u>			***	٩	ú	Ŀ	22	L)	できる	*	10 m	
V 1541 X		Conc. Block	7	fee	Ower Read	Cor. Block	Cent. Black	Conc. Block	1	75	78.	Wood	Poor.	Hood	Food	Wood	Eg	#oed	Mond	Conc. Hipot	Conc. Block	Come: Black	Conc. Black	7		1		Cont. Block	Poor	78	7	7		8	· · · · · · · · · · · · · · · · · · ·	7	C. C. Clark Block	
1	Position.	3	惠	¥.	8	٥	3	3	1	Mertra	Tage 1	*	*	*	2	*	Mond		₽.	8	3	3	- W	3		Beier	Page Att		2	Prosed		Tanga A		Pos		T.	800	
17770									,					ig.	١	· Q	·	Ą	負		1,								***	Ş				٩				
JNOP NO	- Reding	2	Tool S	T S	T.	70.7	Z	13	- the	R ad line	7	SE SAN	Deor	Door Casing	Door Jamb	Stafe Petad	Stair Swan	Selection of the last of the l	Balling Cap	7	2	7	1	7000		7		7.	(100)	Bookease Out	Basicate Back	Dog	Dog Osi	Doc Jano	1	a.	The second	
				\$Q.	4:03	95	4.09	4:30	E E	4-12	443	414	¥-15	4:15	4516	4:18	£38 :	419	4:19	22	(33)	23	424	424		12.5		12	1000	4:33	133	4:35	8	13.	ER S	4.5	gy.	
. D. d.	SOM CTU-SING	2008-12-23 14:03	EX-21-800	2008-12-23 14:06	2008-12-23 14:07	2008-12-23 14:08	2008-12-23 24:09	2008-12-23 14:10	11 H C C C 20 M 11	2008-12-23 14:12	2006-12-23 14-13	2808-12-23 14:14	2000 12:23 34:35	MOCK-11-23 14:15	3E31 (2 (1 8)80	2008-12-23 14:18	2008,12,23 14:18	2018 12-23 14:19	3808-12-23 14-19-	2008-12-23 14-22	2004-12-23 14:23	2011 12.23 14.23	MACH 12-23 14:28	2008-12-23 14:24	CONTRACT TERMS	ME 12.73 M-25	DE 12 75 14-30	2005-12-23 64:30	ME 12.14.12	2008-12-23 14:33	200 E 23 H 33	3008-12-23 14-35	AF 31.12.116 36	3008 12 23 14 36	2008 12 23 14 33	2008 12.23 64.40	2008 12:23 14:42	
	, 25.	ŝ	金	Z.	q	8	E.	9	2	SF.	£	9	8	2	r.	150	N.	19	i a	in the	98	B	9	3	9	2	- A	18	9	2		5			N.	6		2 of 3



49 Mookite Steel Stamford, CL 06902

	NJOSTO J	A 38 Roll 8	SIDE COVERING	[DATE [GM 4 0] 타용 [MORRE FELL (1995) CARROLLAND MATERIAL	11.	N 3 - N 2 - N 3 -		1 1111 211	
2019 17.73 MAZ	Wife Mellion) Pécesi	DEFECTIVE	т.	First	904			K100:004
PORE 17.23 14-46	And Children	Conc. Black	DEFECTIVE		İ	908		Negative:	:<100:006.
Trong (1) 12 64-47	Car Calina	Cour Black	DEFECTIVE	6	Į,	500			ktOD:003
AMO 12 12 14-49	Tra Colora	Front Shark	DIFFECTIVE		E S	200	;-		<000:000 ·
2000-14-C3 F1/70	CAN DO ATE COUNT		See Nates		-	200	<u>_</u> .	Propries.	<100:003
MR-12-1 H-2	CALEBOATE PRINT		See Pletes			903		١.	. 987 ∓ 1910
Man 11 12 (4.5)	CAS SERVITE FRANKE		Ser Notes		_	noc		Presiden	1.58 ± 0.48

- Page 3 of 3

REVISED ASBESTOS PRE-DEMOLITION SURVEY REPORT

INSPECTION SITE:

80 Hastings Street

Bridgeport, CT

CLIENT:

Metcalf & Eddy, Inc. An AECOM Company 860 North Main Street Ext. Wallingford, CT 06492 Attn.: Lucas Hellerich

INSPECTOR:

James Twitchell

INSPECTION DATES:

September 9, 2008 & December 23, 2008

BUILDING TYPES:

Commercial

SAMPLES COLLECTED:

163 collected / 55 analyzed (09/09/08) / 79 analyzed (12/23/08)

BACKGROUND

The building at the above referenced location is slated for demolition. Lucas Hellerich of Metcalf & Eddy Inc. hired HYGENIX, Inc. to document the presence of asbestos-containing building materials (ACBM'S), and to comment on the impact these materials will have on the proposed project. The results of the asbestos survey are presented in this report.

ASBESTOS SAMPLING PROTOCOL

During the inspection of accessible spaces, the inspectors identified "functional spaces or building systems" (e.g. dwelling spaces, storage rooms, boiler rooms, roof systems, heating systems, etc.), and categorized the construction materials within functional spaces and/or system as "homogeneous", based on uniformity in color, age, texture and use. The inspector then compiled a list of building materials suspected to contain asbestos, and recorded the condition, location and approximate quantity of homogeneous, suspect materials.

From each homogeneous area or building system, the inspectors collected representative "bulk" samples of construction materials suspected to contain asbestos.

Samples of suspect materials were analyzed at AmeriSci New York by polarized light microscopy (PLM) in accordance with EPA procedures. The National Voluntary Laboratory Approval Program (NVLAP) accredits AmeriSci New York to perform bulk asbestos analysis.

INTERPRETATION OF TEST RESULTS

The regulations of CT Department of Public Health and the US EPA define asbestos containing materials (ACM's) as materials containing greater than 1-% asbestos. If one or more bulk samples of a homogeneous material are found to contain greater than 1-% asbestos, then all of the homogeneous material is classified as ACM.

The US OSHA Asbestos Construction Industry Standard requires designation as *presumed asbestos* containing materials (PACM's), all surfacing materials and thermal system insulation which have <u>not</u> been tested, or for which the number of samples collected and analyzed was less than the previously listed minimums. This requirement does not apply if the building in which the material is found was constructed after 1980.

The results of the PLM laboratory testing are summarized in Appendix A.

GENERAL DISCUSSION - ASBESTOS ABATEMENT REGULATIONS

Asbestos management and abatement activities in the State of Connecticut are governed by the following State and federal regulations:

1. US EPA National Emission Standards for Hazardous Air Pollutants (NESHAPs)

The NESHAPs regulations for asbestos prohibit the emission of airborne asbestos dust to the environment. These regulations require notification of the regional office of US EPA at least 10 days in advance of an asbestos abatement project involving more than 260 linear feet, 160 square feet, or 35 cubic feet of material containing more than 1% asbestos. The NESHAPs regulations require the asbestos-containing materials to be kept in a wet condition during handling and removal, and specify requirements for labeling, transport and disposal of asbestos waste.

2. US OSHA Asbestos Construction Industry Standard

The OSHA Asbestos Construction Industry Standard protects workers who may be exposed to asbestos in construction. The OSHA standard specifies permissible exposure limits, and procedures for handling various forms and quantities of asbestos containing building materials. The standard describes regulated areas, exposure monitoring, respiratory protection and protective clothing, hygiene facilities, hazard communication, housekeeping, medical surveillance, record keeping, and worker training requirements.

3. CT DOPH CT Standards for Asbestos Abatement

The CT regulations describe the allowable procedures for asbestos abatement, licensing of personnel involved in asbestos abatement, and reoccupancy testing requirements. A 10-day advance notification of the agency is required for asbestos removal projects involving more than 25 square feet or 10 linear feet of friable asbestos containing material.

INVENTORY OF ASBESTOS CONTAINING BUILDING MATERIALS:

All asbestos containing materials must be removed from the building prior to demolition. A Connecticut licensed asbestos abatement contractor must remove the material.

ALL SECTIONS (Exterior)

ACBM Description	Location (s) in Building	Estimated Quantity	Comments
Flashing/Cement	Roof Perimeter Edge	1,000 square feet	
Roll-Out Roofing	Pitched Roof Over Ladder	450 square feet	
Roof Field	Section #1 Roof	1,800 square feet	The roof was not accessible due to fire damage and must be assumed positive unless tested and proven to be asbestos free.

SECTION #3 (Interior)

SECTION #3 (II	CONTROL CONTRO		
ACBM	Location (s) in	Estimated	The same of the sa
Description	Building	Quantity	Comments
Sink Insulation	Rear Offices & Labs (See Map)	5 sinks	1 sink is present in the 2 nd floor office.
9x9 Floor Tiles	- Hall Outside Lab (See Map)- Laboratory (See Map)	- 80 square feet - 500 square feet	There are two layers of tile, both must be removed as asbestos containing.
Tar Coated Wood	Acid Storage (See Map)	N/A	There is a pile of tar coated roofing debris in this area.
Fire Doors	See Map	4 doors	Samples were not submitted for this material. The material must be assumed asbestos containing unless it is sampled and found to be asbestos free.
Aircell Pipe	- Boiler Room	- 100 linear feet	The majority of the insulation in the Rack
Insulation	- Rack Plating Area	- 3,000 square feet	Plating area is on the floor due to pipe removal.
Compression	- Boiler Room	- 20 gaskets	
Gaskets	- Main Steam Line	- N/A	
Sheet Rock &	Interior Partition Walls &	N/A	
Joint Compound	Ceilings		

SECTION #2 (Interior)

DESCRIPTION (AMEC.	****		
ACBM Description	Location (s) in Building	Estimated Quantity	Comments
12x12 Floor Tiles	- 1 st Floor Offices - 2 nd Floor Offices	- 504 square feet - N/A	The 2 nd Floor has fallen through due to a large fire and is not accessible.
Gaskets & Insulation	Red Kilns	450 square feet	Samples were not submitted for this material. The material must be assumed asbestos containing unless it is sampled and found to be asbestos free.
Building Debris	2 nd Floor Offices, Storage Area, Waste, Waste and Acid Waste	3,000 square feet	The 2 nd floor and roof has fallen through due to a large fire and is not accessible. Floor tiles and roof cement were identified as asbestos containing which is mixed in with other building debris.

SECTION #1 (Interior)

ACBM Description	Location (s) in Building	Estimated Quantity Comments
Sink Insulation	2 nd Floor	1 sink
12x12 Gray Floor Tile	2 nd Floor	480 square feet
Gaskets & Insulation	Kiln	450 square feet
12x12 White Floor Tile	1 st Floor Office	130 square feet
Styrofoam w/ Black Mastic	Loose in Bins (See Map)	N/A

INVENTORY OF NON-ASBESTOS CONTAINING MATERIALS:

EXTERIOR

- Roof Penetration Flashing Cement

- Section #2 & #3 Built-up Roofing

- Silver Roofing

- Garage Door Caulk

- Door & Window Caulk

- Façade Mortar

- Window Putty/Glazing

SECTION #3

- 2x4 RF Ceiling Tiles

- Cove Base Adhesive

- 12x12 Floor Tile

- 12x12 Floor Tile Adhesive- Floor Debris in Block Oxide Room

- 9x9 Floor Tile Mastic

- 1x1 Ceiling Tiles

- Floor Debris in Boiler Room

- Floor Debris in Electrical

- Cinderblock Mortar

- Floor Debris in Main Area

SECTION #2

- Cove Base Adhesive

- 12x12 Tan Floor Tile Adhesive

- 2x4 RF Ceiling Tiles

- Sheet Rock

- Stair Tread Adhesive

- 2nd Floor 12x12 White FT Adhesive

- Joint Compound

- Elbow Residue (Seen only on one elbow)

- Cinderblock Mortar

SECTION #1

- 2nd Floor Cove Base Adhesive

- 2nd Floor 12x12 Gray FT Adhesive

- 2x4 RF Ceiling Tile

- 2nd Floor Ceiling Tile Adhesive

- 1st Floor Cove Base Adhesive

- Sheet Rock

- Yellow Flooring

- Joint Compound

- Vibration Cloth

- Cinderblock Mortar

- 1st Floor 12x12 Bottom Layer FT Adhesive

- 1st Floor 12x12 Top Layer FT & Adhesive

LIMITATIONS

HYGENIX, Inc. has performed its services, within the limits prescribed by our clients, with the usual thoroughness and competence of the industrial hygiene profession.

The findings in this report are based upon observations and information available to the inspector during the time of the rendering of the services as described in this report and are based on procedures currently required by applicable laws, regulations and ordinances. HYGENIX cannot be responsible for conditions or materials the inspector did not observe due to lack of access or was not otherwise reasonably observable. The conclusions in this report are professional opinions based solely upon these findings. The findings and conclusions are intended exclusively for the purpose outlined herein within the scope of work and at the site location and project indicated.

This report is for the sole use of the client. The scope of work performed in execution of this inspection may not be appropriate to satisfy the needs of other users and any reuse of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said user.

James Twitchell	 	Date	
	5		

APPENDIX A

PLM BULK ASBESTOS ANALYSIS REPORTS



AmeriSci New York

117 EAST 30TH STREET NEW YORK, NY 10016

TEL: (212) 679-8600 • FAX: (212) 679-9392

September 17, 2008

Hygenix, Inc. Attn: Robert Brown 49 Woodside Street Stamford, CT 06902

RE: Hygenix, Inc.

Job Number 208092387 P.O. #Metcalf & Eddy

Metcalf & Eddy; 80 Hastings Street; Bridgeport, CT

Dear Robert Brown:

Enclosed are the results for PLM asbestos analysis of the following Hygenix, Inc. samples received at AmeriSci on Friday, September 12, 2008, for a 5 day turnaround:

Sample ID 09-09-01 through 09-09-66

The 66 samples contained in Zip Lock Bag were shipped to AmeriSci via Federal Express. These samples were prepared and analyzed according to the EPA Interim Method (EPA 600/M4-82-020 per 40 CFR 763, subpt F, App. A). The required analytical information, analysis results, analyst signature and laboratory identification is contained in the Analyst's Report.

This report relates ONLY to the sample analysis expressed as percent asbestos. AmeriSci assumes no responsibility for customer supplied data such as "sample type", "location", or "area sampled". This report must not be used to claim product endorsement by AmeriSci, NVLAP or any agency of the U. S. Government. The National Institute of Standards and Technology Accreditation requirements, mandates that this report must not be reproduced, except in full without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations respectively, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Paul J. Mucha

Laboratory Director



AmeriSci New York

117 EAST 30TH ST. NEW YORK, NY 10016

TEL: (212) 679-8600 • FAX: (212) 679-3114

PLM Bulk Asbestos Report

Hygenix, Inc.

Attn: Robert Brown 49 Woodside Street

Date Received

09/12/08

AmeriSci Job #

208092387

Date Examined 09/17/08

P.O. # Page

12

RE: Metcalf & Eddy; 80 Hastings Street; Bridgeport, CT

Stamford, CT 06902

Client No. /	HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-01 1	Location: Roof F	208092387-01 Perimeter Edge/Flashing/Cemen	Yes	3 % (by CVES) by Bella J. Chernis
Asbesto	scription: Black, Homogos Types: Chrysotile 3.0 Material: Cellulose 20 9		erial	on 09/17/08
09-09-02		208092387-02		NA/PS
1	Location: Roof F	erimeter Edge/Flashing/Cemen	t	10010
Asbesto	scription: Bulk Material os Types: Material:			
09-09-03		208092387-03		NA/PS
1	Location: Roof P	erimeter Edge/Flashing/Cement	:	
Asbesto	cription: Bulk Material s Types: Material:			
09-09-04		208092387-04	Yes	Trace (<1 %) ¹
2	Location: Roof P	enetrations/Flashing/Cement		(by CVES) by Bella J. Chernis on 09/17/08
Asbesto	s Types: Chrysotile <1.			011 09/17/08
Other I	Material: Cellulose Trac	e, Synthetic fibers 12 %, Non-f	ibrous 88 %	
09-09-05		208092387-05	No	NAD
2		enetrations/Flashing/Cement		(by CVES) by Bella J. Chernis on 09/17/08
Analyst Des Asbesto		eneous, Non-Fibrous, Bulk Mate	rial	

See Reporting notes on last page

Other Material: Cellulose 10 %, Synthetic fibers 5 %, Non-fibrous 85 %

Page 2 of 12

Client Name: Hygenix, Inc.

PLM Bulk Asbestos Report

Client No. /	HGA Lab No.	Asbestos Present	Total % Asbestos
09-09-06 2	208092387- Location: Roof Penetrations/Flashing/C	208092387-06 No f Penetrations/Flashing/Cement	
Asbesto	cription: Black, Homogeneous, Non-Fibrous, Es Types: Material: Cellulose 8 %, Synthetic fibers 5 %,		on 09/17/08
09-09-07	208092387-	07 No	NAD
3	Location: Roof Main/Built-Up Roofing		(by CVES) by Bella J. Chernis on 09/17/08
Asbesto	cription: Black, Heterogeneous, Non-Fibrous, s Types: Material: Cellulose 5 %, Fibrous glass 2 %, N		
09-09-08	208092387-	08 No	NAD
3	Location: Roof Main/Built-Up Roofing		(by CVES) by Bella J. Chernis on 09/17/08
Asbesto	cription: Black, Heterogeneous, Non-Fibrous, s Types: Material: Cellulose 20 %, Non-fibrous 80 %	Bulk Material	
09-09-09	208092387-	09 No	NAD
3	Location: Roof Main/Built-Up Roofing		(by CVES) by Bella J. Chernis on 09/17/08
Asbesto	cription: Black, Heterogeneous, Non-Fibrous, s Types: Material: Cellulose 10 %, Non-fibrous 90 %	Bulk Material	
09-09-10	208092387-	10 No	NAD
4	Location: Roof Top Layer/Silver Roofing		(by CVES) by Bella J. Chernis on 09/17/08
Asbestos	cription: Silver/Black, Homogeneous, Non-Fib s Types: Material: Cellulose Trace, Synthetic fibers 10 ^o		
 09-09-11			NAD
J9-09-11 4	208092387- Location: Roof Top Layer/Silver Roofing		NAD (by CVES) by Bella J. Chernis on 09/17/08
Asbestos	cription: Silver/Black, Homogeneous, Non-Fib s Types: Material: Synthetic fibers 15 %, Non-fibrous 85		

Client Name: Hygenix, Inc.

PLM Bulk Asbestos Report

Client No. / HG	A Lab No.	Asbestos Present	Total % Asbestos
09-09-12 4	208092387-12 Location: Roof Top Layer/Silver Roofing	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Asbestos T	tion: Silver/Black, Homogeneous, Non-Fibrous, Bul /pes: erial: Synthetic fibers 15 %, Non-fibrous 85 %	lk Material	3.1.33, 1,102
09-09-13 5 Analyst Descrip	208092387-13 Location: Ladder Overhang/Roll Out Roofing tion: Black, Homogeneous, Non-Fibrous, Bulk Mate	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Asbestos Ty		a la l	
09-09-14 5	208092387-14 Location: Ladder Overhang/Roll Out Roofing	Yes	2 % (by CVES) by Bella J. Chernis on 09/17/08
Asbestos Ty	tion: Black, Homogeneous, Non-Fibrous, Bulk Mate pes: Chrysotile 2.0 % prial: Cellulose 5 %, Non-fibrous 93 %	erial	311 03/17/00
09-09-15 5	208092387-15 Location: Ladder Overhang/Roll Out Roofing		NA/PS
Analyst Descrip Asbestos Ty Other Mate	•		
09-09-16 6	208092387-16 Location: Garage Door/Caulk	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Asbestos Ty	t ion: Grey, Homogeneous, Non-Fibrous, Cementitic pes: rial: Non-fibrous 100 %	ous, Bulk Material	
09-09-17 6	208092387-17 Location: Garage Door/Caulk	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Asbestos Ty	i on: Grey, Homogeneous, Non-Fibrous, Cementitio pes: rial: Non-fibrous 100 %	ous, Bulk Material	

PLM Bulk Asbestos Report

Client No. /	HGA Lab No.	Asbestos Present	Total % Asbestos
09-09-18 6	09-18 208092387-18 No Location: Garage Door/Caulk		NAD (by CVES) by Bella J. Chernis on 09/17/08
Asbest	scription: Grey, Homogeneous, Non-Fibrous, Cem os Types: Material: Non-fibrous 100 %	entitious, Bulk Material	011 03/17/00
09-09-19 7	208092387-19 Location: Door & Windows/Caulk	No	NAD (by CVES) by Bella J. Chernis
Asbeste	scription: Grey/Red, Homogeneous, Non-Fibrous, los Types: Material: Non-fibrous 100 %	Bulk Material	on 09/17/08
09-09-20 7	208092387-20 Location: Door & Windows/Caulk	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Asbesto	scription: Grey/Red, Homogeneous, Non-Fibrous, los Types: Material: Non-fibrous 100 %	Bulk Material	
09-09-21 7	208092387-21 Location: Door & Windows/Caulk	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Asbesto	scription: Grey, Homogeneous, Non-Fibrous, Bulk os Types: Material: Non-fibrous 100 %	Material	311 337 17733
09-09-22 8	208092387-22 Location: Exterior Facade/Mortar	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Asbesto	scription: Red, Homogeneous, Non-Fibrous, Ceme os Types: Material: Non-fibrous 100 %	ntitious, Bulk Material	
)9-09-23 3	208092387-23 Location: Exterior Facade/Mortar	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
	cription: Red, Homogeneous, Non-Fibrous, Ceme	malalance Dulle Madamial	011 00/11/00

Client Name: Hygenix, Inc.

PLM Bulk Asbestos Report

Client No. /	HGA Lab No.	Asbestos Present	Total % Asbestos
09-09 - 24 8	208092387-24 Location: Exterior Facade/Mortar	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Asbest	scription: Red, Homogeneous, Non-Fibrous, Cementition os Types: Material: Non-fibrous 100 %	us, Bulk Material	011 09/17/06
09-09-25 9	208092387-25 Location: Exterior Windows/Putty/Glazing	Yes	Trace (<1 %) ¹ (by CVES) by Bella J. Chernis on 09/17/08
Asbest	scription: Tan, Homogeneous, Non-Fibrous, Bulk Materia os Types: Chrysotile <1. % ' Material: Non-fibrous 100 %	ał	
09-09-26 9	208092387-26 Location: Exterior Windows/Putty/Glazing	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Asbesto	scription: Grey, Homogeneous, Non-Fibrous, Bulk Materios Types: Material: Non-fibrous 100 %	ial	011 09/17/08
09-09-27 9	208092387-27 Location: Exterior Windows/Putty/Glazing	Yes	Trace (<1 %) ¹ (by CVES) by Bella J. Chernis on 09/17/08
Asbesto	scription: Tan/Grey, Heterogeneous, Non-Fibrous, Bulk Nos Types: Chrysotile <1. % Material: Non-fibrous 100 %	/laterial	GII 667 17760
09-09-28 10	208092387-28 Location: Section #3/2x4 RF CT	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Asbesto	scription: Beige, Homogeneous, Fibrous, Bulk Material os Types: Material: Cellulose 50 %, Fibrous glass 20 %, Non-fibro	ous 30 %	
09-09-29 10	208092387-29 Location: Section #3/2x4 RF CT	No	NAD (by CVES)
Asbesto	scription: Beige, Homogeneous, Fibrous, Bulk Material os Types: Material: Cellulose 50 %, Fibrous glass 20 %, Non-fibro	us 30 %	by Bella J. Chernis on 09/17/08

PLM Bulk Asbestos Report

Client No.	/ HGA	Lab No.	Asbestos Present	Total % Asbestos
		208092387-30 n #3 - 2nd Floor/2x4 RF CT	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Asbest	os Types:	eneous, Fibrous, Bulk Material , Fibrous glass 20 %, Non-fib		
09-09-31		208092387-31	Yes	5 %
11	Location: Section	#3/Sink Insulation		(by CVES) by Bella J. Chernis on 09/17/08
Asbest	scription: Pink, Homoger os Types: Chrysotile 5.0 Material: Cellulose 2 %,		rial	
09-09-32		208092387-32		NA/PS
11	Location: Section	#3/Sink Insulation		
Asbest	scription: Bulk Material os Types: Material:			
09-09-33		208092387-33		NA/PS
11	Location: Section	#3/Sink Insulation		
Asbesto	scription: Bulk Material os Types: Material:			
09-09-34		208092387-34	No	NAD
12	Location: Section	#3/Cove Base Adhesive		(by CVES) by Bella J. Chernis on 09/17/08
Asbesto	scription: White, Homoge os Types: Material: Non-fibrous 10	eneous, Non-Fibrous, Bulk Mate D %	erial	on 657, 177 6 5
09-09-35		208092387-35	No	NAD
12	Location: Section	#3/Cove Base Adhesive		(by CVES) by Bella J. Chernis on 09/17/08
Asbesto	scription: White, Homoge os Types: Material: Non-fibrous 100	eneous, Non-Fibrous, Bulk Mate	erial	G. 100/11/00

PLM Bulk Asbestos Report

Client No. / I	HGA Lab No.	Asbestos Present	Total % Asbestos
Asbesto	208092387-36 Location: Section #3 - 2nd Floor/Cove Bas cription: White, Homogeneous, Non-Fibrous, Bul s Types: Material: Non-fibrous 100 %	se Adhesive	NAD (by CVES) by Bella J. Chernis on 09/17/08
09-09-37	208092387-37	No	NAD
13	Location: Section #3/Adhesive		(by CVES) by Bella J. Chernis on 09/17/08
Asbesto: Other N	cription: Brown, Homogeneous, Non-Fibrous, Bu s Types: //aterial: Cellulose 3 %, Non-fibrous 97 % mment:	Ik Material	
09-09-38	208092387-38	No	NAD
14	Location: Section #3/12x12 Floor Tile		(by CVES) by Bella J. Chernis on 09/17/08
Asbestos	cription: Tan, Homogeneous, Non-Fibrous, Bulk s Types: flaterial: Non-fibrous 100 %	waterial	
09-09-39	208092387-39	No	NAD
13	Location: Section #3/Adhesive		(by CVES) by Bella J. Chernis on 09/17/08
Asbestos	c ription: Brown, Homogeneous, Non-Fibrous, Bu s Types: faterial: Non-fibrous 100 %	lk Material	
09-09-40	208092387-40	No	NAD
14	Location: Section #3/12x12 Floor Tile		(by CVES) by Bella J. Chernis on 09/17/08
Asbestos	ription: Grey, Homogeneous, Non-Fibrous, Bulk Types: laterial: Non-fibrous 100 %	Material	

PLM Bulk Asbestos Report

Client No. / H	GA Lab No.	Asbestos Present	Total % Asbestos
09-09-41 13	208092387-41 Location: Section #3 - 2nd Floor/Adhesive	No	NAD (by CVES) by Bella J. Chernis
Asbestos	ription: Brown, Homogeneous, Non-Fibrous, Bulk Mate Types: aterial: Non-fibrous 100 %	erial	on 09/17/08
09-09-42	208092387-42	No	NAD
14	Location: Section #3 - 2nd Floor/12x12 Floor Tile		(by CVES) by Bella J. Chernis on 09/17/08
Asbestos	ription: Tan/Brown, Homogeneous, Non-Fibrous, Bulk Types: aterial: Non-fibrous 100 %	Material	
09-09-43	208092387-43	No	NAD
15	Location: Section #3/Mastic	,,,	(by CVES) by Bella J. Chernis on 09/17/08
Asbestos	iption: Black, Homogeneous, Non-Fibrous, Bulk Matel Types: aterial: Non-fibrous 100 %	rial	3.1 33/1/703
09-09-44	208092387-44	Yes	3 %
16	Location: Section #3/9x9 Gray FT		(by CVES) by Bella J. Chernis on 09/17/08
Asbestos '	iption: Grey, Homogeneous, Non-Fibrous, Bulk Materi Types: Chrysotile 3.0 % Iterial: Non-fibrous 97 %	al	
09-09-45	208092387-45	No	NAD
17	Location: Section #3/Mastic		(by CVES) by Bella J. Chernis on 09/17/08
Asbestos ⁻	iption: Black, Homogeneous, Non-Fibrous, Bulk Mater Types: terial: Cellulose 2 %, Non-fibrous 98 %	ial	
09-09-46	208092387-46	Vac	F.0/
18	Location: Section #3/9x9 White FT	Yes	5 % (by CVES) by Bella J. Chernis on 09/17/08
Asbestos 1	ption: White, Homogeneous, Non-Fibrous, Bulk Mater Types: Chrysotile 5.0 % terial: Non-fibrous 95 %	ial	

PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street; Bridgeport, CT

Asbestos Typ Other Mater 09-09-48 16 Analyst Descripti Asbestos Typ Other Mater 09-09-49 17 Analyst Descripti Asbestos Typ Other Mater	208092387-48 Location: Section #3/9x9 Gray FT ion: Bulk Material ces: rial: 208092387-49 Location: Section #3/Mastic ion: Black, Homogeneous, Non-Fibrous, Bulk Ma	No	NAD (by CVES) by Bella J. Chernis on 09/17/08 NA/PS NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Descript Asbestos Typ Other Mater 09-09-48 16 Analyst Descripti Asbestos Typ Other Mater 09-09-49 17 Analyst Descripti Asbestos Typ Other Mater	ion: Black, Homogeneous, Non-Fibrous, Bulk Mapes: rial: Non-fibrous 100 % 208092387-48 Location: Section #3/9x9 Gray FT ion: Bulk Material pes: rial: 208092387-49 Location: Section #3/Mastic on: Black, Homogeneous, Non-Fibrous, Bulk Ma	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Asbestos Typ Other Mater 09-09-48 16 Analyst Descripti Asbestos Typ Other Mater 09-09-49 17 Analyst Descripti Asbestos Typ Other Mater	pes: rial: Non-fibrous 100 % 208092387-48 Location: Section #3/9x9 Gray FT ion: Bulk Material pes: rial: 208092387-49 Location: Section #3/Mastic ion: Black, Homogeneous, Non-Fibrous, Bulk Ma	No	NAD (by CVES) by Bella J. Chernis
Analyst Descripti Asbestos Typ Other Mater 09-09-49 17 Analyst Descripti Asbestos Typ Other Mater	Location: Section #3/9x9 Gray FT ion: Bulk Material pes: rial: 208092387-49 Location: Section #3/Mastic ion: Black, Homogeneous, Non-Fibrous, Bulk Ma		NAD (by CVES) by Bella J. Chernis
Analyst Descripti Asbestos Typ Other Mater 09-09-49 17 Analyst Descripti Asbestos Typ Other Mater	ion: Bulk Material pes: rial: 208092387-49 Location: Section #3/Mastic on: Black, Homogeneous, Non-Fibrous, Bulk Ma		NAD (by CVES) by Bella J. Chernis
Asbestos Typ Other Mater 09-09-49 17 Analyst Descripti Asbestos Typ Other Mater	pes: rial: 208092387-49 Location: Section #3/Mastic on: Black, Homogeneous, Non-Fibrous, Bulk Ma		(by CVES) by Bella J. Chernis
Analyst Descripti Asbestos Typ Other Mater	Location: Section #3/Mastic on: Black, Homogeneous, Non-Fibrous, Bulk Ma		(by CVES) by Bella J. Chernis
Asbestos Typ Other Mater	on: Black, Homogeneous, Non-Fibrous, Bulk Ma	terial	on 09/17/08
	ial: Cellulose Trace, Non-fibrous 100 %		
9-09-50	208092387-50		NA/PS
8	Location: Section #3/9x9 White FT		-
Analyst Descripti Asbestos Typ Other Mater	es:		
9-09-51	208092387-51	No	NAD
5	Location: Section #3/Mastic		(by CVES) by Bella J. Chernis
Asbestos Typ	on: Black, Homogeneous, Non-Fibrous, Bulk Mates: es: ial: Non-fibrous 100 %	terial	on 09/17/08
9-09-52	208092387-52		NA/PS
6	Location: Section #3/9x9 Gray FT		

Other Material:

PLM Bulk Asbestos Report

Client No.	/ HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-53 17	Location: Section	208092387-53 n #3/Mastic	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Asbest	escription: Black, Homogo tos Types: r Material: Non-fibrous 10	eneous, Non-Fibrous, Bulk Ma 0 %	terial	011 03/1/700
09-09-54		208092387-54	····	NA/PS
18	Location: Section			WATS
Asbest	scription: Bulk Material os Types: · Material:			
09-09-55	,	208092387-55	No	NAD
19	Location: Section	#3/1x1 Ceiling Tile		(by CVES) by Bella J. Chernis
Asbest	os Types:	eneous, Fibrous, Bulk Material , Fibrous glass 10 %, Non-fik		on 09/17/08
09-09-56		208092387-56	No	NAD
19	Location: Section	#3/1x1 Ceiling Tile		(by CVES) by Bella J. Chernis on 09/17/08
Asbest	os Types:	eneous, Fibrous, Bulk Material		011 03/17/00
Other	Material: Cellulose 60 %	, Fibrous glass 10 %, Non-fib	prous 30 %	
09-09-57 19	Location: Section	208092387-57 #3/1x1 Ceiling Tile	No	NAD (by CVES) by Bella J. Chernis
Asbesto	os Types:	neous, Fibrous, Bulk Material		on 09/17/08
Other	Material: Cellulose 60 %	Fibrous glass 10 %, Non-fib	rous 30 %	
09-09-58		208092387-58	No	NAD ²
20		#3 - Block Oxide/Debris		(by CVES) by Bella J. Chernis on 09/17/08
Asbesto	scription: Brown/White, Hos Types: Material: Non-fibrous 100	eterogeneous, Non-Fibrous, E	Bulk Material	

Page 11 of 12

PLM Bulk Asbestos Report

Client No.	/ HGA Lab No.	Asbestos Present	Total % Asbestos
	208092387-59 Location: Section #3 - Block Oxide/Debris escription: White, Homogeneous, Non-Fibrous, Bulk Materia	No	NAD ² (by CVES) by Bella J. Chernis on 09/17/08
	tos Types: r Material: Non-fibrous 100 %		
09-09-60	208092387-60	No	NAD ²
20	Location: Section #3 - Block Oxide/Debris		(by CVES) by Bella J. Chernis on 09/17/08
Asbest	scription: White, Homogeneous, Non-Fibrous, Bulk Materia os Types: r Material: Non-fibrous 100 %	l	
09-09-61	208092387-61	No	NAD
21	Location: Section #3 - Acid Storage/Roof Debris		(by CVES) by Bella J. Chernis on 09/17/08
Asbest	scription: Black, Homogeneous, Non-Fibrous, Bulk Material os Types: Material: Cellulose 10 %, Non-fibrous 90 %		
09-09-62	208092387-62	No	NAD
21	Location: Section #3 - Acid Storage/Roof Debris		(by CVES) by Bella J. Chernis on 09/17/08
Asbest	scription: Black, Homogeneous, Non-Fibrous, Bulk Material os Types: Material: Cellulose 15 %, Non-fibrous 85 %		311 03/17/00
	waterial. Cellulose 15 %, Non-librous 65 %		
09-09-63	208092387-63	No	NAD
09-09-63 21		No	NAD (by CVES) by Bella J. Chernis on 09/17/08
21 Analyst De Asbesto	208092387-63 Location: Section #3 - Acid Storage/Roof Debris scription: Black, Homogeneous, Non-Fibrous, Bulk Material os Types:		(by CVES) by Bella J. Chernis
Analyst Des Asbeste Other	208092387-63 Location: Section #3 - Acid Storage/Roof Debris scription: Black, Homogeneous, Non-Fibrous, Bulk Material os Types: Material: Cellulose 15 %, Non-fibrous 85 %		(by CVES) by Bella J. Chernis on 09/17/08
21 Analyst De Asbesto	208092387-63 Location: Section #3 - Acid Storage/Roof Debris scription: Black, Homogeneous, Non-Fibrous, Bulk Material os Types:	Yes	(by CVES) by Bella J. Chernis

Page 12 of 12

PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street; Bridgeport, CT

Client No. /	HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-65		208092387-65		NA/PS
22	Location: Section	n #3 - Acid Storage/Tar Coate	ed Wood	
Asbesto	cription: Bulk Material s Types: Material:			
09-09-66		208092387-66		NA/PS
22	Location: Section	#3 - Acid Storage/Tar Coate	d Wood	
Asbesto	cription: Bulk Material s Types: //aterial:			

Reporting Notes:

(1)	TEM confirmation	of	'LM	results	recommend	led	ı
-----	------------------	----	-----	---------	-----------	-----	---

(2) Analysis Results For Soil, Dust, Or Debris May Be Highly Variable Because Of The Heterogeneous Nature Of These Samples
Analyzed by: Bella J. Chernis Bolla (Manalyzed by: Bella J. Chernis Bo
*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40
CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples or 198.6 for NOB samples (NY ELAP Lab ID11480);
Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results
by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non
asbestos-containing in NY State (also see EPA Advisory for floor tile,FR 59,146,38970,8/1/94). National Institute of Standards and Technology
Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab. This PIM report relates ONLY
to the items tested. All 4 ab # 107843.

HYGENIX, Inc.	Environmental Consulting & Laboratory Services	49 Woodside Street Stamford, CT 06902 (203) 324-2222 (phone) (203) 324-3876 (fax)	DESCRIPTION OTY. RESULT	/	29	29	Flashing/Cement	29	59	Built-up Roofing	29	99	Silver Roofing	79	25	Roll Out Roofing	99	29	Caulk	29	29	Notes: 5 Day TAT, Till Positive	
······································	4.00°		DESC	Flashi			Flashi			Built-ı			Silve			Roll O						Notes: 5 Day	
Type: PLM	Tech: JT	— Date: 09/09/08	\\ \TION	Edge			Suc						er			ng			_				
			SAMPLING LOCATION	Roof Perimeter Edge	99	27	Roof Penetrations	23	99	Roof Main	"	>>	Roof Top Layer	25	75	Ladder Overhang	99	99	Garage Door	99	33	CHAIN OF CUSTODY	
: Eddy	Street	CI	SAMPLE #	10-00-60	09-00-02	09-09-03	09-09-04	50-60-60	90-60-60	20-60-60	80-60-60	60-60-60	03-60-60	09-09-11	09-09-12	09-09-13	09-09-14	09-09-15	09-09-16	09-09-17	09-09-18	CHAIN	
Client: Metcalf & Eddy	Site: 80 Hastings Street	Bridgeport, CT	LAB ID#														-					radina para di Para di Para di Para di Para di Para di Para di Para di Para di Para di Para di Para di Para di	

Tech: 1T Tech: 1T	Tech: IT Tech: IT	SAMPLE # 8 09-09-19- 09-09-21 09-09-23 09-09-24 09-09-25 09-09-26 09-09-26 09-09-36 09-09-34 09-09-35 09-09-35 09-09-35 09-09-35 09-09-35 09-09-35 09-09-35 09-09-36 CHAIN OF CUS	Type: PLM			AITY L
SAMPLE # SAMPLING LOCATION DESCRIPT	SAMPLE # SAMPLING LOCATION DESCRIPT	SAMPLE # 6 09-09-19- 09-09-20 09-09-21 09-09-23 09-09-24 09-09-25 09-09-26 09-09-26 09-09-36 09-09-31 09-09-32 09-09-33 09-09-35 09-09-35 09-09-35 09-09-36 CHAIN OF CUS	Tech: JT	Fuvironments	HIGE	IVLA, INC.
SAMPLE# SAMPLING LOCATION DESCRIPTION 09-09-10 " " 09-09-21 " " 09-09-22 Exterior Façade Mortar 09-09-24 " " 09-09-25 Exterior Windows Putty/Glazing 09-09-26 " " 09-09-27 " " 09-09-29 Section #3 - 2nd Floor " 09-09-29 Section #3 - 2nd Floor Sink Insulation 09-09-31 Section #3 - 2nd Floor " 09-09-32 Section #3 - 2nd Floor " 09-09-34 Section #3 - 2nd Floor Cove Base Adhes 09-09-35 " " 09-09-36 Section #3 - 2nd Floor Notes: 5 Day TAT. Till 09-09-37 Chall Not CUSTODY Notes: 5 Day TAT. Till	SAMPLE# SAMPLING LOCATION DESCRIPTION 09-09-19 Door & Windows Caulk 09-09-21 " " 09-09-23 Exterior Façade Mortar 09-09-24 " " 09-09-25 Exterior Windows Putty/Glazing 09-09-26 " " 09-09-27 " " 09-09-28 Section #3 Zx4 RF CT 09-09-29 Section #3 - 2nd Floor " 09-09-31 Section #3 - 2nd Floor " 09-09-32 " " 09-09-34 Section #3 - 2nd Floor Cove Base Adhes 09-09-35 Section #3 - 2nd Floor " 09-09-36 Section #3 - 2nd Floor " 09-09-37 " " 09-09-38 Section #3 - 2nd Floor " 09-09-39 Section #3 - 2nd Floor " 09-09-31 Notes: 5 Day TAT. Till 09-09-32 " " 09-09-35 Section #3 - 2nd Floor "	SAMPLE # 6 09-09-19- 09-09-20 09-09-21 09-09-23 09-09-24 09-09-25 09-09-26 09-09-36 09-09-31 09-09-35 09-09-35 09-09-35 09-09-35 09-09-35 09-09-36 CHAIN OF CUS		\$2 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Star	Woodside Streemford, CT 06902
SAMPLE# SAMPLING LOCATION DESCRIPTION QTY. 09-09-19- Door & Windows Caulk QTY. 09-09-20- " " 09-09-21- Exterior Façade Mortar 09-09-22- Exterior Windows Putty/Glazing 09-09-24- " " 09-09-25- Exterior Windows Putty/Glazing 09-09-26- " " 09-09-27- " " 09-09-28- Section #3 - 2nd Floor " 09-09-29- Section #3 - 2nd Floor " 09-09-30- Section #3 - 2nd Floor " 09-09-31- " " 09-09-32- " " 09-09-33- Section #3 - 2nd Floor " 09-09-34- Section #3 - 2nd Floor " 09-09-35- " " 09-09-36- Section #3 - 2nd Floor " 09-09-35- Section #3 - 2nd Floor " 09-09-36- Section #3 - 2nd Floor " 09-09-37-	SAMPLE# SAMPLING LOCATION DDGC & Windows OFFICE 09-09-19- Door & Windows Caulk OTY. 09-09-20- Exterior Façade Mortar Mortar 09-09-22- Exterior Façade Mortar Mortar 09-09-23- Exterior Windows Putty/Glazing Description 09-09-25- Exterior Windows Putty/Glazing Description 09-09-26- " " 09-09-27- " " 09-09-28- Section #3 - 2 nd Floor " 09-09-39- Section #3 - 2 nd Floor " 09-09-31- Section #3 - 2 nd Floor " 09-09-32- Section #3 - 2 nd Floor " 09-09-33- " " 09-09-34- Section #3 - 2 nd Floor " 09-09-35- Section #3 - 2 nd Floor " 09-09-36- Section #3 - 2 nd Floor " 09-09-37- Section #3 - 2 nd Floor " 09-09-38- Section #3 - 2 nd Floor " 09-09-39-	SAMPLE # 6 09-09-19-09-09-20 09-09-21 09-09-23 09-09-25 09-09-26 09-09-28 09-09-30 09-09-31 09-09-32 09-09-33 09-09-35 09-09-35 09-09-35 09-09-35 09-09-35 09-09-36 CHAIN OF CUS	Date: 09/09/08	+7c (coz)	507) (Silond) 7777-1) 224-30/0 (1ax
09-09-19- Door & Windows Caulk 09-09-20 " 09-09-21 Exterior Façade Mortar 09-09-22 Exterior Façade Mortar 09-09-23 Exterior Windows Putty/Glazing 09-09-24 " " 09-09-25 Exterior Windows Putty/Glazing 09-09-26 " " 09-09-27 " " 09-09-28 Section #3 - 2 nd Floor " 09-09-29 Section #3 - 2 nd Floor " 09-09-30 Section #3 - 2 nd Floor " 09-09-31 Section #3 - 2 nd Floor " 09-09-32 " " 09-09-34 Section #3 - 2 nd Floor " 09-09-35 " " 09-09-36 Section #3 - 2 nd Floor " 09-09-37 " " 09-09-38 Section #3 - 2 nd Floor " 09-09-37 " " 09-09-38 Section #3 - 2 nd Floor " 09-09	09-09-19 Door & Windows Caulk 09-09-20 " 09-09-21 Exterior Façade Mortar 09-09-22 " 09-09-24 Exterior Windows Putty/Glazing 09-09-25 Exterior Windows Putty/Glazing 09-09-26 " " 09-09-27 " " 09-09-28 Section #3 2x4 RF CT 09-09-29 " " 09-09-30 Section #3 - 2nd Floor " 09-09-31 Section #3 Sink Insulation 09-09-32 " " 09-09-33 Section #3 - 2nd Floor " 09-09-34 Section #3 - 2nd Floor " 09-09-35 Section #3 - 2nd Floor " 09-09-35 Section #3 - 2nd Floor " 09-09-36 Section #3 - 2nd Floor " 09-09-37 Section #3 - 2nd Floor " 09-09-38 Section #3 - 2nd Floor " 09-09-39 Section #3 - 2nd Floor " <td< td=""><td>09-09-19- 09-09-20 09-09-21 09-09-23 09-09-24 09-09-25 09-09-26 09-09-28 09-09-38 09-09-39 09-09-31 09-09-35 09-09-35 09-09-35 09-09-35 09-09-35 09-09-35 09-09-36</td><td>AMPLING LOCATION</td><td>DESCRIPTION</td><td>OTY.</td><td>RESULT</td></td<>	09-09-19- 09-09-20 09-09-21 09-09-23 09-09-24 09-09-25 09-09-26 09-09-28 09-09-38 09-09-39 09-09-31 09-09-35 09-09-35 09-09-35 09-09-35 09-09-35 09-09-35 09-09-36	AMPLING LOCATION	DESCRIPTION	OTY.	RESULT
09-09-20 " " 09-09-21 " " 09-09-22 Exterior Façade Mortar 09-09-23 " " 09-09-24 Exterior Windows Putty/Glazing " 09-09-25 Exterior Windows Putty/Glazing " 09-09-26 " " " 09-09-27 " " " 09-09-28 Section #3 - 2nd Floor " " 09-09-39 Section #3 - 2nd Floor " " 09-09-30 Section #3 - 2nd Floor " " 09-09-35 " " " 09-09-35 " " " 09-09-35 Section #3 - 2nd Floor " " 09-09-36 Section #3 - 2nd Floor " " 09-09-37 " " " 09-09-38 Section #3 - 2nd Floor " " 09-09-39 Section #3 - 2nd Floor " " 09-09-36 Section #3 - 2nd	09-09-20 " " 09-09-21 Exterior Façade Mortar 09-09-23 " " 09-09-24 " " 09-09-25 Exterior Windows Putty/Glazing 09-09-26 " " 09-09-27 " " 09-09-28 Section #3 - 2 nd Floor " 09-09-29 Section #3 - 2 nd Floor " 09-09-30 Section #3 - 2 nd Floor " 09-09-31 Section #3 - 2 nd Floor " 09-09-35 " " 09-09-36 Section #3 - 2 nd Floor " 09-09-37 Section #3 - 2 nd Floor " 09-09-38 Section #3 - 2 nd Floor " 09-09-35 Section #3 - 2 nd Floor " 09-09-36 Section #3 - 2 nd Floor " 09-09-37 " " 09-09-38 Section #3 - 2 nd Floor " 09-09-39 Section #3 - 2 nd Floor " 09-09-30 Section #3 - 2 nd Floor	09-09-20 09-09-21 09-09-22 09-09-23 09-09-24 09-09-25 09-09-26 09-09-36 09-09-34 09-09-35 09-09-35 09-09-35 CHAIN OF CUST	Door & Windows	Caulk	,	
09-09-21 " " 09-09-22 Exterior Façade Mortar 09-09-23 " " 09-09-24 " " 09-09-25 Exterior Windows Putty/Glazing " 09-09-26 " " 09-09-27 " " 09-09-29 Section #3 - 2nd Floor " 09-09-30 Section #3 - 2nd Floor " 09-09-31 " " 09-09-32 " " 09-09-34 Section #3 - 2nd Floor " 09-09-35 " " 09-09-36 Section #3 - 2nd Floor " 09-09-37 " " 09-09-38 Section #3 - 2nd Floor " 09-09-39 Section #3 - 2nd Floor " 09-09-39 Section #3 - 2nd Floor " 09-09-30 Section #3 - 2nd Floor " 09-09-30 Section #3 - 2nd Floor " 09-09-31 Section #3 - 2nd Floor " 09-09	09-09-21 " " 09-09-22 Exterior Façade Mortar 09-09-23 " " 09-09-24 Exterior Windows Putty/Glazing 09-09-25 Exterior Windows Putty/Glazing 09-09-26 " " 09-09-27 " " 09-09-28 Section #3 - 2 nd Floor " 09-09-29 Section #3 - 2 nd Floor " 09-09-30 Section #3 - 2 nd Floor " 09-09-31 Section #3 - 2 nd Floor " 09-09-32 " " 09-09-33 Section #3 - 2 nd Floor " 09-09-34 Section #3 - 2 nd Floor " 09-09-35 Section #3 - 2 nd Floor " 09-09-36 Section #3 - 2 nd Floor Notes: 5 Day TAT. Till Positive CHAIN OF CUSTODY All Post Positive " Date/Time: Received By: Date/Time: Please e-mail results to jivvitchell@hygenix.com	09-09-21 09-09-22 09-09-23 09-09-24 09-09-25 09-09-26 09-09-29 09-09-39 09-09-34 09-09-35 09-09-36 CHAIN OF CUST	79	77		
09-09-22 Exterior Façade Mortar 09-09-23 " " 09-09-24 " " 09-09-25 Exterior Windows Putty/Glazing 09-09-26 " " 09-09-27 " " 09-09-28 Section #3 - 2 nd Floor " 09-09-3-1 Section #3 - 2 nd Floor " 09-09-3-2 " " 09-09-3-3 " " 09-09-3-4 Section #3 - 2 nd Floor " 09-09-3-5 " " 09-09-3-6 Section #3 - 2 nd Floor " 09-09-3-7 " " 09-09-3-8 Section #3 - 2 nd Floor " 09-09-3-7 " " 09-09-3-8 Section #3 - 2 nd Floor " 09-09-3-7 Section #3 - 2 nd Floor " 09-09-3-8 Section #3 - 2 nd Floor " 09-09-3-9 Section #3 - 2 nd Floor " 09-09-3-1 Section #3 - 2 nd Floor "	09-09-22 Exterior Façade Mortar 09-09-23 " " 09-09-24 Exterior Windows Putty/Glazing 09-09-25 Exterior Windows Putty/Glazing 09-09-26 " 09-09-27 " 09-09-29 Section #3 - 2 nd Floor 09-09-31 Section #3 09-09-32 " 09-09-34 Section #3 09-09-35 " 09-09-36 Section #3 09-09-37 " 09-09-38 Section #3 09-09-39 Section #3 09-09-30 Section #3 09-09-31 " 09-09-32 " 09-09-34 Section #3 CHAIN OF CUSTODY " CHAIN OF CUSTODY Notes: 5 Day TAT. Till Positive Date/Time: Received By: Date/Time: Please e-mail results to juvitchell@hygenix.com	09-09-22 09-09-24 09-09-24 09-09-25 09-09-26 09-09-28 09-09-30 09-09-31 09-09-34 09-09-35 09-09-36 CHAIN OF CUST	29	99		
09-09-23 " " 09-09-24 " " 09-09-25 Exterior Windows Putty/Glazing 09-09-26 " " 09-09-27 " " 09-09-28 Section #3 2x4 RF CT 09-09-29 " " 09-09-30 Section #3 - 2 nd Floor " 09-09-31 Section #3 Sink Insulation 09-09-32 " " 09-09-33 " " 09-09-34 Section #3 Cove Base Adhesive 09-09-35 " " 09-09-36 Section #3 - 2 nd Floor " 09-09-37 " " 09-09-38 Section #3 - 2 nd Floor " 09-09-39 Section #3 - 2 nd Floor Notes: 5 Day TAT. Till Positive	09-09-23 " " 09-09-24 " " 09-09-25 Exterior Windows Putty/Glazing 09-09-26 " " 09-09-27 Section #3 2x4 RF CT 09-09-28 Section #3 - 2 nd Floor " 09-09-30 Section #3 - 2 nd Floor " 09-09-31 " " 09-09-32 Section #3 Sink Insulation 09-09-34 Section #3 Cove Base Adhesive 09-09-35 " 09-09-36 Section #3 - 2 nd Floor 09-09-37 " 09-09-38 Section #3 - 2 nd Floor 09-09-39 " 09-09-30 Section #3 - 2 nd Floor 09-09-31 " 09-09-32 Section #3 - 2 nd Floor 09-09-34 Section #3 - 2 nd Floor CHAIN OF CUSTODY " Date/Time: Received By: Date/Time: Please e-mail results to jtwitchell@hygenix.com	09-09-23 09-09-24 09-09-25 09-09-26 09-09-28 09-09-28 09-09-30 09-09-31 09-09-34 09-09-35 CHAIN OF CUST CHAIN OF CUST	Exterior Façade	Mortar		
09-09-24 " " 09-09-55 Exterior Windows Putty/Glazing 09-09-26 " 09-09-27 " 09-09-28 Section #3 2x4 RF CT 09-09-29 " 09-09-30 Section #3 - 2 nd Floor 09-09-31 Section #3 - 2 nd Floor 09-09-32 09-09-33 09-09-34 Section #3 - 2 nd Floor 09-09-35 09-09-36 09-09-37 09-09-38 09-09-39 09-09-30 09-09-30 09-09-30 09-09-30 09-09-30 09-09-31 09-09-32	09-09-24 " " 09-09-25 Exterior Windows Putty/Glazing 09-09-26 " 09-09-27 " 09-09-28 Section #3 - 2 nd Floor 09-09-39 Section #3 - 2 nd Floor 09-09-31 Section #3 - 2 nd Floor 09-09-32 " 09-09-34 Section #3 - 2 nd Floor 09-09-35 " 09-09-36 Section #3 - 2 nd Floor 09-09-37 " 09-09-38 Section #3 - 2 nd Floor 09-09-39 Section #3 - 2 nd Floor 09-09-30 Whotes: 5 Day TAT. Till Positive CHAIN OF CUSTODY Notes: 5 Day TAT. Till Positive Chair PaterTime: Please e-mail results to jtwitchell@hygenix.com	09-09-24 09-09-25 09-09-26 09-09-28 09-09-28 09-09-39 09-09-31 09-09-34 09-09-35 CHAIN OF CUST	99	29		
09-02-5 Exterior Windows Putty/Glazing 09-09-26 " 09-09-27 " 09-09-28 Section #3 09-09-29 " 09-09-30 Section #3 - 2nd Floor 09-09-3+ Section #3 09-09-3-5 " 09-09-3-7 " 09-09-3-8 " 09-09-3-9 Section #3 09-09-3-7 " 09-09-3-8 Section #3 09-09-3-9 " 09-09-3-1 Section #3 09-09-3-2 " 09-09-3-3 " CHAIN OF CUSTODY " CHAIN OF CUSTODY Notes: 5 Day TAT. Till Positive Chair in the privite of puritichell@hygenix.com	09-09-25 Exterior Windows Putty/Glazing 09-09-26 " " 09-09-27 " " 09-09-28 Section #3 2x4 RF CT 09-09-29 " " 09-09-30 Section #3 - 2nd Floor " 09-09-31 Section #3 - 2nd Floor Sink Insulation 09-09-32 " 09-09-33 " 09-09-34 Section #3 09-09-35 " 09-09-36 Section #3 09-09-37 " 09-09-38 Section #3 09-09-39 " 09-09-30 Section #3 09-09-31 " 09-09-32 " 09-09-33 " 09-09-34 Section #3 09-09-35 " 09-09-36 Section #3 - 2nd Floor 09-09-37 " 09-09-38 Section #3 - 2nd Floor 09-09-39 CHAIN OF CUSTODY Obstack Date - Implementation of the property of the property of the pr	09-09-25 09-09-26 09-09-27 09-09-28 09-09-39 09-09-34 09-09-35 09-09-36 CHAIN OF CUST	99	29		
09-09-26 " " 09-09-27 " " 09-09-28 Section #3 2x4 RF CT 09-09-29 " " 09-09-30 Section #3 - 2nd Floor Sink Insulation Page Address 09-09-34 Section #3 Cove Base Adhesive Page Adhesive 09-09-35 " Cove Base Adhesive Page Adhesive 09-09-36 Section #3 - 2nd Floor " Page Adhesive 09-09-37 " Page Adhesive Page Adhesive 09-09-38 Section #3 - 2nd Floor " Page Adhesive 09-09-39 Section #3 - 2nd Floor " Page Adhesive CHAIN OF CUSTODY " " Page Adhesive CHAIN OF CUSTODY " " Page Adhesive Chair Administration of the page Adhesive " Page Adhesive	09-09-26 "	09-09-26 09-09-28 09-09-28 09-09-39 09-09-31 09-09-34 09-09-34 09-09-35 CHAIN OF CUST	Exterior Windows	Putty/Glazing		
09-09-27 " " 09-09-28 Section #3 2x4 RF CT 09-09-29 " 09-09-29 " 09-09-30 Section #3 - 2nd Floor 09-09-34 Section #3 09-09-35 " 09-09-36 Section #3 - 2nd Floor 09-09-36 Section #3 - 2nd Floor CHAIN OF CUSTODY " CHAIN OF CUSTODY Notes: 5 Day TAT. Till Positive CHAIN OF CUSTODY Please e-mail results to jtwitchell@hygenix.com	09-09-27 " " 09-09-28 Section #3 2x4 RF CT " 09-09-29 " " " 09-09-34 Section #3 Sink Insulation Sink Insulation 09-09-35 " Section #3 " Sink Insulation Insulation 09-09-35 " " Insulation Insulation Insulation Insulation Insulation Insulation Insulation Insulation Insu	09-09-27 09-09-28 09-09-29 09-09-30 09-09-31 09-09-33 09-09-35 09-09-35 CHAIN OF CUST	22	39		
09-09-28 Section #3 2x4 RF CT C 09-09-29 " " 09-09-30 Section #3 - 2 nd Floor " 09-09-31 Section #3 Sink Insulation 09-09-32 " 09-09-33 " 09-09-34 Section #3 Cove Base Adhesive 09-09-35 " 09-09-36 Section #3 - 2 nd Floor " 09-09-36 Section #3 - 2 nd Floor Notes: 5 Day TAT. Till Positive CHAIN OF CUSTODY Notes: 5 Day TAT. Till Positive Pater/Time: Received By: Date/Time: Pater/Time: Received By: Date/Time:	09-09-28 Section #3 2x4 RF CT C 09-09-29 " " 09-09-30 Section #3 - 2 nd Floor " 09-09-31 Section #3 Sink Insulation 09-09-32 " 09-09-34 Section #3 Cove Base Adhesive 09-09-35 " 09-09-36 Section #3 - 2 nd Floor " 09-09-36 Section #3 - 2 nd Floor " CHAIN OF CUSTODY " CHAIN OF CUSTODY Notes: 5 Day TAT. Till Positive CHAIN OF CUSTODY " CHAIN OF CUSTODY " CHAIN OF CUSTODY " CHAIN OF CUSTODY " CHAIN OF CUSTODY "	09-09-28 09-09-30 09-09-31 09-09-33 09-09-34 09-09-35 CHAIN OF CUST	77	22		
09-09-29 09-09-31 09-09-3+ 09-09-32 09-09-33 09-09-33 09-09-35 09-09-35 CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	09-09-29 09-09-34 09-09-35 09-09-35 09-09-35 09-09-35 09-09-36 Section #3 09-09-35 CHAIN OF CUSTODY Date/Time: Received By: Date/Time: O9-09-29 CHAIN OF CUSTODY A 1/19	09-09-29 09-09-31 09-09-32 09-09-33 09-09-34 09-09-35 CHAIN OF CUST	Section #3	2x4 RF CT		Ş
09-09-30 Section #3 - 2 nd Floor 09-09-31 Section #3 09-09-32 " 09-09-33 " 09-09-34 Section #3 09-09-35 " CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY Bate/Time: Received By: Date/Time:	09-09-30 09-09-34 09-09-32 09-09-33 09-09-34 09-09-35 CHAIN OF CUSTODY Bection #3 CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY	09-09-30 09-09-31 09-09-33 09-09-34 09-09-35 CHAIN OF CUST	99	39		
09-09-31 Section #3 09-09-32 " 09-09-34 Section #3 09-09-35 Section #3 09-09-36 Section #3 - 2 nd Floor CHAIN OF CUSTODY CHAIN OF CUSTODY	09-09-31 " 09-09-32 " 09-09-33 " 09-09-35 Section #3 09-09-36 Section #3 - 2 nd Floor CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	09-09-34 09-09-34 09-09-35 09-09-36 CHAIN OF CUST	Section #3 - 2 nd Floor	99		
09-09-32	09-09-32	09-09-32 09-09-33 09-09-35 09-09-36 CHAIN OF CUST	Section #3	Sink Insulation		
09-09-33 " 09-09-34 Section #3 09-09-35 " CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	09-09-33 09-09-34	09-09-33 09-09-34 09-09-35 09-09-36 CHAIN OF CUST	99	99		
09-09-34 Section #3 09-09-35 " 09-09-36 Section #3 – 2 nd Floor CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	09-09-34 09-09-35 09-09-36 Section #3 CHAIN OF CUSTODY CHAIN OF CUSTODY Beceived By: Date/Time:	09-09-34 09-09-35 09-09-36 CHAIN OF CUST	29	29		
09-09-35 09-09-36 CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	09-09-35 09-09-36 CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	09-09-35 09-09-36 CHAIN OF CUST	Section #3	Cove Base Adhesive		
O9-09-36 Section #3 – 2 nd Floor CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	O9-09-36 Section #3 – 2 nd Floor CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	CHAIN OF CUST Chaine: Recei	29	29		
CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	CHAIN OF C	Section #3 – 2 nd Floor	22		
Date/Time: Received By: Date/Time:	Date/Time: Received By: Date/Time:	Date/Time:	ODY	Notes: 5 Day TAT. Till Positive		
	2 d/19			Please e-mail results to itwitchell	l@hvgenix.com	
	9/2					***************************************

208092387-

Site: 80 Hastings Street Tech: JT Tech: JT Tech: JT Part: formula and longer port, crossed and longer por	Client: Metcalf & Eddy	if & Eddy		Type: PLM		HVCE	HVCFNIX Inc
CT Date: 09/09/08 CT SAMPLE # SAMPLING LOCATION DESCRIPT 09-09-37 Section #3 Adhesiv 09-09-38 " Adhesiv 09-09-40 " Adhesiv 09-09-41 Section #3 Adhesiv 09-09-42 " Adhesiv 09-09-43 Section #3 Adhesiv 09-09-44 " Adhesiv 09-09-45 " Adhesiv 09-09-46 " Py9 Gray 09-09-47 " Py9 White 09-09-48 " Py9 Gray 09-09-49 " Py9 White 09-09-51 " Py9 Gray 09-09-52 " Py9 White 09-09-51 " Py9 White 09-09-52 " Py9 Gray 09-09-53 " Py9 Gray 09-09-54 " Py9 White 09-09-53 " Py9 White 09-09-54 " Py9 White	Site: 80 Hastii	ngs Street		Tech: JT	Environment	al Consulting & La	aboratory Services
SAMPLE # SAMPLING LOCATION 09-09-37 09-09-38 09-09-39 09-09-40 09-09-41 09-09-45 09-09-45 09-09-45 09-09-48 09-09-48 09-09-49 09-09-54 09-09-54 CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	Bridgepo	nt, CT		Date: 09/09/08	(503) 33	49 Str 4-2222 (phone) (20	49 Woodside Street Stamford, CT 06902 (203) 324-3876 (fax)
09-09-37 Section #3 09-09-38 " 09-09-39 " 09-09-40 " 09-09-41 Section #3 - 2 nd Floor 09-09-42 " 09-09-43 Section #3 09-09-44 " 09-09-45 " 09-09-46 " 09-09-47 " 09-09-48 " 09-09-49 " 09-09-51 " 09-09-52 " 09-09-53 " 09-09-54 " CHAIN OF CUSTODY Chare/Time: Received By: Date/Time: Received By:	LAB ID#	SAMPLE #	SAMPLING LOCATION	NO	DESCRIPTION	OTY.	RESULT
09-09-38 " 09-09-39 " 09-09-40 " 09-09-41 Section #3 – 2 nd Floor 09-09-42 " 09-09-44 " 09-09-45 " 09-09-46 " 09-09-47 " 09-09-48 " 09-09-49 " 09-09-50 " 09-09-51 " 09-09-52 " 09-09-53 " 09-09-54 " 09-09-54 " CHAIN OF CUSTODY Date/Time: Date/Time:		09-09-37	Section #3		Adhesive		
09-09-39 " 09-09-40 " 09-09-41 Section #3 – 2nd Floor 09-09-42 " 09-09-44 " 09-09-45 " 09-09-46 " 09-09-47 " 09-09-48 " 09-09-49 " 09-09-51 " 09-09-52 " 09-09-53 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-65 " 09-09-7 " 09-09-8 " 09-09-8 " 09-09-8 " 09-09-9 " 09-09-9 " 09-09-9 <		85-60-60	22		12x12 Floor Tile		
09-09-40 " 09-09-41 Section #3 – 2 nd Floor 09-09-42 " 09-09-43 Section #3 09-09-44 " 09-09-45 " 09-09-46 " 09-09-47 " 09-09-48 " 09-09-49 " 09-09-50 " 09-09-51 " 09-09-52 " 09-09-53 " 09-09-54 " CHAIN OF CUSTODY CHAIN OF CUSTODY Section #3 Date/Time:		09-09-39	25		Adhesive		
09-09-41 Section #3 - 2 nd Floor 09-09-42 " 09-09-44 " 09-09-45 " 09-09-46 " 09-09-47 " 09-09-48 " 09-09-49 " 09-09-50 " 09-09-51 " 09-09-52 " 09-09-53 " 09-09-54 " 09-09-54 " CHAIN OF CUSTODY Chaire: Received By: Date/Time: Received By:		09-09-40	1		12x12 Floor Tile		
09-09-42 " 09-09-43 Section #3 09-09-44 " 09-09-45 " 09-09-46 " 09-09-47 " 09-09-48 " 09-09-49 " 09-09-50 " 09-09-51 " 09-09-52 " 09-09-53 " 09-09-54 " 09-09-53 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-57 " 09-09-58 " 09-09-59 " 09-09-51 " 09-09-52 " 09-09-53 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-55 " 09-09-65 " 09-09-7 " 09-09-7 " <td></td> <td>09-09-41</td> <td>Section #3 -2^{nd} Floo</td> <td>ır</td> <td>Adhesive</td> <td></td> <td></td>		09-09-41	Section #3 -2^{nd} Floo	ır	Adhesive		
09-09-43 Section #3 09-09-44 " 09-09-45 " 09-09-46 " 09-09-47 " 09-09-48 " 09-09-48 " 09-09-49 " 09-09-50 " 09-09-51 " 09-09-52 " 09-09-53 " 09-09-54 " 09-09-54 " 09-09-54 " 09-09-54 " CHAIN OF CUSTODY Date/Time: Received By: Date/Time:		09-09-42	99		12x12 Floor Tile		
09-09-44 " 09-09-45 " 09-09-46 " 09-09-47 " 09-09-48 " 09-09-49 " 09-09-50 " 09-09-51 " 09-09-52 " 09-09-53 " 09-09-54 " CHAIN OF CUSTODY " CHAIN OF CUSTODY " 09-09-54 " 09-09-55 "		09-09-43	Section #3		Mastic		
09-09-45 " 09-09-46 " 09-09-47 " 09-09-48 " 09-09-49 " 09-09-50 " 09-09-51 " 09-09-52 " 09-09-53 " 09-09-54 " CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY		09-09-44	>>		9x9 Gray FT		
09-09-46 09-09-47 09-09-48 09-09-48 09-09-49 09-09-50 09-09-51 09-09-52 09-09-53 09-09-54 CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY		09-09-45	***		Mastic		
09-09-47 09-09-48 09-09-49 09-09-50 09-09-51 09-09-52 09-09-53 09-09-54 CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY		09-09-46	99		9x9 White FT		
09-09-48 09-09-49 09-09-50 09-09-51 09-09-52 09-09-53 09-09-54 CHAIN OF CUSTODY Date/Time: Received By: Date/Time:		09-09-47	99		Mastic		
09-09-49 09-09-50 09-09-51 09-09-52 09-09-53 09-09-54 CHAIN OF CUSTODY CHAIN Exceived By: Date/Time: Date/Time: Dat		09-09-48	99		9x9 Gray FT		
09-09-50 09-09-51 09-09-52 09-09-53 09-09-54 CHAIN OF CUSTODY Date/Time: Received By: Date/Time:		09-09-49	99		Mastic		
09-09-51		05-60-60	99		9x9 White FT		
09-09-52 09-09-53 09-09-54 CHAIN OF CUSTODY Date/Time: Received By: Date/Time:		09-09-51	99		Mastic		
09-09-53		09-09-52	99		9x9 Gray FT		
09-09-54 CHAIN OF CUSTODY Date/Time: Received By: Date/Time:		09-09-53	99		Mastic		
CHAIN OF CUSTODY Date/Time: Received By: Date/Time:					9x9 White FT		
Date/Time: Received By: Date/Time:	\	CHAI	N OF CUSTODY		Notes: 5 Day TAT. Till Positiv	Ð	
	Relinquished			e/Time:	Please e-mail results to itwitche	Il@hygenix.com	
				2/16			
			,	2 20	4		

		BULKS	BULK SAMPLE LOG			
Client: Metcalf & Eddy	If & Eddy		Type: PLM		HYGE	HYGENIX Inc
Site: 80 Hastings Street	ngs Street		Tech: JT	Environmenta	Environmental Consulting & Laboratory Services	oratory Services
Bridgeport, CT	nt, CT		Date: 09/09/08	(203) 324	49 Woodside Street Stamford, CT 06902 (203) 324-2222 (phone) (203) 324-3876 (fax)	49 Woodside Street Stamford, CT 06902 (203) 324-3876 (fax)
LAB ID#	SAMPLE #	SAMPLING LOCATION	NO	DESCRIPTION	QTY.	RESULT
	09-09-55	Section #3		1x1 Ceiling Tile		
	95-60-60	99		99		
	09-09-57	29		99		
	85-60-60	Section #3 – Black Oxide	iide	Debris		
	65-60-60	99		99		
	09-60-60	99		99		
	09-09-61	Section #3 – Acid Storage	age.	Roof Debris		
	09-09-63			22		
	69-60-60	99		29		
	09-09-64	Section #3 – Acid Storage	age.	Tar Coated Wood		
	9-60-60	99		99		
	99-60-60	99		99		
	TATEST .					
	-85-68-68-			J		
	-0-40-5			4		
	- 05 00 co		[ľ		
				•		
	53-50-50	-		•		
		CHAIN OF CUSTODY		Notes: 5 Day TAT. Till Positive		
Relinquished By	By: Date/Time:	Received By:	Date/Time:	Please e-mail results to jtwitchell@hygenix.com	l@hygenix.com	
			, 0			
			4/02			
			370)			
			,			



AmeriSci New York

117 EAST 30TH ST. NEW YORK, NY 10016

TEL: (212) 679-8600 • FAX: (212) 679-3114

PLM Bulk Asbestos Report

Hygenix, Inc.

Attn: Robert Brown

49 Woodside Street

Date Received

12/26/08

AmeriSci Job #

208123455

Date Examined 12/27/08

2/27/08 P.O. #

Page 1

of 16

RE: Metcalf & Eddy; 80 Hastings Street, Bridgeport, CT

Stamford, CT 06902

	HGA Lab No.	Asbestos Present	Total % Asbesto
	208123455-01 Location: Section #3 - Electrical, Debris cription: White, Homogeneous, Fibrous, Bulk Material s Types:	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Other	Material: Cellulose Trace, Fibrous glass 2 %, Non-fibrous glass 2 %,	rous 98 %	
09-09-68	208123455-02	No	NAD
1	Location: Section #3 - Electrical, Debris		(by CVES) by Ivan H. Reyes on 12/27/08
Asbesto	cription: Brown/Black, Heterogeneous, Fibrous, Bulk & Types: S Types: Material: Cellulose 20 %, Fibrous glass 3 %, Non-fibr		
09-09-69	208123455-03	No	NAD
~~ ~~ ~~			
1	Location: Section #3 - Electrical, Debris		(by CVES) by Ivan H. Reyes on 12/27/08
1 Analyst Des		s, Bulk Material	(by CVES) by Ivan H. Reyes
1 Analyst Des Asbesto Other	Location: Section #3 - Electrical, Debris cription: Brown/Black/Yellow, Heterogeneous, Fibrous s Types:	s, Bulk Material	(by CVES) by Ivan H. Reyes
1 Analyst Des	Location: Section #3 - Electrical, Debris cription: Brown/Black/Yellow, Heterogeneous, Fibrous s Types: Material: Cellulose 35 %, Fibrous glass 20 %, Non-fib	s, Bulk Material Prous 45 %	(by CVES) by Ivan H. Reyes on 12/27/08 NAD (by CVES) by Ivan H. Reyes
Analyst Des Asbesto Other I 09-09-70 2 Analyst Des Asbesto	Location: Section #3 - Electrical, Debris cription: Brown/Black/Yellow, Heterogeneous, Fibrous s Types: Material: Cellulose 35 %, Fibrous glass 20 %, Non-fib 208123455-04 Location: Section #3 - Main Area, Debris cription: Grey/Tan, Heterogeneous, Fibrous, Cementit	s, Bulk Material Prous 45 % No No Sious, Bulk Material	(by CVES) by Ivan H. Reyes on 12/27/08 NAD (by CVES)
Analyst Des Asbesto Other I 09-09-70 2 Analyst Des Asbesto	Location: Section #3 - Electrical, Debris cription: Brown/Black/Yellow, Heterogeneous, Fibrous s Types: Material: Cellulose 35 %, Fibrous glass 20 %, Non-fib 208123455-04 Location: Section #3 - Main Area, Debris cription: Grey/Tan, Heterogeneous, Fibrous, Cementits s Types:	s, Bulk Material Prous 45 % No No Sious, Bulk Material	(by CVES) by Ivan H. Reyes on 12/27/08 NAD (by CVES) by Ivan H. Reyes
Analyst Des Asbesto Other I 09-09-70 2 Analyst Des Asbesto Other I	Location: Section #3 - Electrical, Debris cription: Brown/Black/Yellow, Heterogeneous, Fibrous s Types: Material: Cellulose 35 %, Fibrous glass 20 %, Non-fib 208123455-04 Location: Section #3 - Main Area, Debris cription: Grey/Tan, Heterogeneous, Fibrous, Cementit s Types: Material: Cellulose 10 %, Wollastonite Trace, Non-fibrous	orous 45 % No No tious, Bulk Material rous 90 % No	(by CVES) by Ivan H. Reyes on 12/27/08 NAD (by CVES) by Ivan H. Reyes on 12/27/08

Client No.	/ HGA Lab No.	Asbestos Present	Total % Asbestos
09-09-72	208123455-06 Location: Section #3 - Main Area, Debris	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Asbes	escription: Beige, Homogeneous, Non-Fibrous, Cementition etos Types: er Material: Cellulose Trace, Non-fibrous 100 %	us, Bulk Material	5.1.1227750
09-09-73	208123455-07	Yes	65 %
3	Location: Section #3, Compression Gasket		(by CVES) by Ivan H. Reyes on 12/27/08
Asbes	escription: Grey/Brown, Homogeneous, Fibrous, Bulk Mater tos Types: Chrysotile 65.0 % r Material: Non-fibrous 35 %	ial	
09-09-74	208123455-08		NA/PS
3	Location: Section #3, Compression Gasket		1471 0
Asbest	escription: Bulk Material tos Types: r Material:		
09-09-75	208123455-09		NA/PS
3	Location: Section #3, Compression Gasket		
Asbest	escription: Bulk Material tos Types: r Material:		
9-09-76	208123455-10	No	NAD
	Location: Section #3, - Boiler Room, Debris		(by CVES) by Ivan H. Reyes on 12/27/08
Asbest	scription: OffWhite/Tan, Heterogeneous, Fibrous, Bulk Mat os Types: · Material: Cellulose 30 %, Non-fibrous 70 %	er ia!	
9-09-77	208123455-11	No	NAD
1	Location: Section #3, - Boiler Room, Debris	110	(by CVES) by Ivan H. Reyes on 12/27/08
	scription: White, Homogeneous, Fibrous, Bulk Material		

Client No.	/ HGA Lab No.	Asbestos Present	Total % Asbestos
09-09-78 4 Analyst D	208123455-12 Location: Section #3, - Boiler Room, Debris escription: Beige/White, Heterogeneous, Fibrous, Bu	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Asbes	stos Types: er Material: Cellulose 10 %, Fibrous glass 55 %, No		
09-09-79	208123455-13	No	NAD
5	Location: Section #1 - 2nd Floor, Cove Base		(by CVES) by Ivan H. Reyes on 12/27/08
Asbes	escription: Yellow, Homogeneous, Non-Fibrous, Bulk stos Types: er Material: Cellulose Trace, Non-fibrous 100 %	x Material	
09-09-80	208123455-14	No	NAD
5	Location: Section #1 - 2nd Floor, Cove Base	- 	(by CVES) by Ivan H. Reyes
	• • • • • • • • • • • • • • • • • • • •		on 12/27/08
Asbes Othe	escription: Yellow, Homogeneous, Non-Fibrous, Bulk stos Types: er Material: Cellulose Trace, Non-fibrous 100 %	Material	on 12/27/08
Asbes Othe 09-09-81 5	etos Types: er Material: Cellulose Trace, Non-fibrous 100 % 208123455-15 Location: Section #1 - 2nd Floor, Cove Base	No Adhesive	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Asbes Othe 09-09-81 5 Analyst De Asbes	etos Types: er Material: Cellulose Trace, Non-fibrous 100 % 208123455-15 Location: Section #1 - 2nd Floor, Cove Base escription: Yellow, Homogeneous, Non-Fibrous, Bulk tos Types:	No Adhesive	NAD (by CVES) by Ivan H. Reyes
Asbes Othe 09-09-81 5 Analyst De Asbes	er Material: Cellulose Trace, Non-fibrous 100 % 208123455-15 Location: Section #1 - 2nd Floor, Cove Base escription: Yellow, Homogeneous, Non-Fibrous, Bulk	No Adhesive	NAD (by CVES) by Ivan H. Reyes
Asbes Othe 09-09-81 5 Analyst De Asbes	etos Types: er Material: Cellulose Trace, Non-fibrous 100 % 208123455-15 Location: Section #1 - 2nd Floor, Cove Base escription: Yellow, Homogeneous, Non-Fibrous, Bulk tos Types:	No Adhesive	NAD (by CVES) by Ivan H. Reyes on 12/27/08 NAD (by CVES) by Ivan H. Reyes
Asbes Othe 09-09-81 Analyst De Asbes Othe 09-09-82 Analyst De Asbes	etos Types: er Material: Cellulose Trace, Non-fibrous 100 % 208123455-15 Location: Section #1 - 2nd Floor, Cove Base escription: Yellow, Homogeneous, Non-Fibrous, Bulk etos Types: er Material: Cellulose Trace, Non-fibrous 100 % 208123455-16	No Adhesive Material	NAD (by CVES) by Ivan H. Reyes on 12/27/08 NAD (by CVES)
Asbes Othe 09-09-81 Analyst De Asbes Othe 09-09-82 Analyst De Asbes Othe	er Material: Cellulose Trace, Non-fibrous 100 % 208123455-15 Location: Section #1 - 2nd Floor, Cove Base escription: Yellow, Homogeneous, Non-Fibrous, Bulk tos Types: er Material: Cellulose Trace, Non-fibrous 100 % 208123455-16 Location: Section #1 - 2nd Floor, Adhesive escription: Yellow, Homogeneous, Non-Fibrous, Bulk tos Types: er Material: Cellulose Trace, Non-fibrous 100 %	No Adhesive Material No	NAD (by CVES) by Ivan H. Reyes on 12/27/08 NAD (by CVES) by Ivan H. Reyes on 12/27/08
Asbes Othe 09-09-81 Analyst De Asbes Othe 09-09-82 Analyst De Asbes	er Material: Cellulose Trace, Non-fibrous 100 % 208123455-15 Location: Section #1 - 2nd Floor, Cove Base escription: Yellow, Homogeneous, Non-Fibrous, Bulk tos Types: er Material: Cellulose Trace, Non-fibrous 100 % 208123455-16 Location: Section #1 - 2nd Floor, Adhesive escription: Yellow, Homogeneous, Non-Fibrous, Bulk tos Types:	No Adhesive Material No Material Yes	NAD (by CVES) by Ivan H. Reyes on 12/27/08 NAD (by CVES) by Ivan H. Reyes

	HGA Lab No.	Asbestos Present	Total % Asbestos
	208123455-18 Location: Section #1 - 2nd Floor, Adhesive scription: Yellow, Homogeneous, Non-Fibrous, Bulk Ma tos Types:	No aterial	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Other	r Material: Cellulose Trace, Non-fibrous 100 %		
09-09-85	208123455-19		NA/PS
7	Location: Section #1 - 2nd Floor, 12x12 Gray FT	ſ	
Asbest	scription: Bulk Material os Types: r Material:		
09-09-86	208123455-20	No	NAD
6	Location: Section #1 - 2nd Floor, Adhesive		(by CVES) by Ivan H. Reyes on 12/27/08
Asbest	scription: Yellow, Homogeneous, Non-Fibrous, Bulk Ma os Types: • Material: Cellulose Trace, Non-fibrous 100 %	terial	5. V. V. II. 2. V. O
09-09-87	208123455-21		NA/PS
7	Location: Section #1 - 2nd Floor, 12x12 Gray FT	•	
Asbest	scription: Bulk Material os Types: • Material:		
Asbest Other	os Types:	No	NAD
Asbest Other 09-09-88	os Types: Material: 208123455-22 Location: Section #1, 2x4 RF CT	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Asbest Other 09-09-88 3 Analyst De Asbest	os Types: • Material: 208123455-22		(by CVES) by Ivan H. Reyes
Asbest Other 09-09-88 3 Analyst De Asbest Other	208123455-22 Location: Section #1, 2x4 RF CT scription: White, Homogeneous, Fibrous, Bulk Material os Types:		(by CVES) by Ivan H. Reyes
Asbest Other 09-09-88 3 Analyst De Asbest	os Types: Material: 208123455-22 Location: Section #1, 2x4 RF CT scription: White, Homogeneous, Fibrous, Bulk Material os Types: Material: Cellulose 50 %, Fibrous glass 25 %, Non-fibr	rous 25 %	(by CVES) by Ivan H. Reyes on 12/27/08

Client No. /	HGA Lab No.	Asbestos Present	Total % Asbestos
	208123455-24 Location: Section #1, 2x4 RF CT scription: White, Homogeneous, Fibrous, Bulk Material os Types:	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
	Material: Cellulose 50 %, Fibrous glass 30 %, Non-fibrou	s 20 %	
09-09-91	208123455-25	No	NAD
9	Location: Section #1 - 2nd Floor, Ceiling Tile Adhes	sive	(by CVES) by Ivan H. Reyes on 12/27/08
Asbest	scription: Tan, Homogeneous, Non-Fibrous, Bulk Material os Types: Material: Cellulose Trace, Non-fibrous 100 %		
09-09-92	208123455-26	No	NAD
9	Location: Section #1 - 2nd Floor, Ceiling Tile Adhes	tive	(by CVES) by Ivan H. Reyes on 12/27/08
Asbesto	scription: Tan, Homogeneous, Non-Fibrous, Bulk Material os Types: Material: Cellulose Trace, Non-fibrous 100 %		
09-09-93	208123455-27	No	NAD
9	Location: Section #1 - 2nd Floor, Ceiling Tile Adhes	ive	(by CVES) by Ivan H. Reyes on 12/27/08
Asbesto	scription: Tan, Homogeneous, Non-Fibrous, Bulk Material os Types:		
Other	Material: Cellulose Trace, Non-fibrous 100 %		
09-09-94	208123455-28	Yes	60 %
10	Location: Section #1, Kiln Insulation		(by CVES) by Ivan H. Reyes on 12/27/08
Asbesto	ocription: White, Homogeneous, Fibrous, Bulk Material os Types: Chrysotile 60.0 % Material: Fibrous glass 15 %, Non-fibrous 25 %		
9-09-95	208123455-29		NA/PS
10	Location: Section #1, Kiln Insulation		
Asbesto	scription: Bulk Material os Types: Material:		

AmeriSci Job #: 208123455 Client Name: Hygenix, Inc.

PLM Bulk Asbestos Report

Client No. / I	HGA Lab No.	Asbestos Present	Total % Asbestos
09-09-96	208123455-30		NA/PS
10	Location: Section #1, Kiln Insulation		
Asbesto	cription: Bulk Material s Types: flaterial:		
09-09-97	208123455-31	No	NAD
11	Location: Section #1, Glue		(by CVES) by Ivan H. Reyes on 12/27/08
Asbesto	cription: Yellow, Homogeneous, Non-Fibrous, Bulk Ma s Types: Material: Cellulose Trace, Non-fibrous 100 %	aterial	
09-09-98	208123455-32	Yes	2 %
12	Location: Section #1, 12x12 FT Bottom Layer		(by CVES) by Ivan H. Reyes on 12/27/08
Asbesto	cription: Beige, Homogeneous, Non-Fibrous, Bulk Ma s Types: Chrysotile 2.0 % Material: Non-fibrous 98 %	terial	
09-09-99	208123455-33	No	NAD
11	Location: Section #1, Glue		(by CVES) by Ivan H. Reyes on 12/27/08
Asbesto	c ription : Tan, Homogeneous, Non-Fibrous, Bulk Mate s Types :	rial	
Other I	Material: Cellulose Trace, Non-fibrous 100 %		
09-09-100	208123455-34	No	NAD
13	Location: Section #1, 12x12 FT Top Layer		(by CVES) by Ivan H. Reyes on 12/27/08
Asbesto	cription: OffWhite, Homogeneous, Non-Fibrous, Bulk s Types: Material: Cellulose Trace, Non-fibrous 100 %	Material	
09-09-101	208123455-35	No	NAD
11	Location: Section #1, Glue		(by CVES) by Ivan H. Reyes on 12/27/08
•	cription: Yellow, Homogeneous, Non-Fibrous, Bulk M s Types:	aterial	

	HGA Lab No.	Asbestos Present	Total % Asbestos
09-09-102 12	208123455-36 Location: Section #1, 12x12 FT Bottom Layer		NA/PS
Asbesto	cription: Bulk Material s Types: Material:		
09-09-103	208123455-37	No	NAD
11	Location: Section #1, Glue		(by CVES) by Ivan H. Reyes
Asbesto	c ription : Tan, Homogeneous, Non-Fibrous, Bulk Materia s Types: flaterial: Cellulose Trace, Non-fibrous 100 %	i	on 12/27/08
09-09-104	208123455-38	No	NAD
13	Location: Section #1, 12x12 FT Top Layer cription: OffWhite, Homogeneous, Non-Fibrous, Bulk Ma		(by CVES) by Ivan H. Reyes on 12/27/08
Asbestos			
09-09-105	faterial: Cellulose Trace, Non-fibrous 100 % 208123455-39 Location: Section #1, Glue	No	NAD (by CVES) by Ivan H. Reyes
09-09-105 11 Analyst Desc Asbestos	208123455-39 Location: Section #1, Glue ription: Yellow, Homogeneous, Non-Fibrous, Bulk Mate		(by CVES)
09-09-105 11 Analyst Desc Asbestos	208123455-39 Location: Section #1, Glue ription: Yellow, Homogeneous, Non-Fibrous, Bulk Mate		(by CVES) by Ivan H. Reyes
09-09-105 11 Analyst Desc Asbestos	208123455-39 Location: Section #1, Glue ription: Yellow, Homogeneous, Non-Fibrous, Bulk Mate		(by CVES) by Ivan H. Reyes
Analyst Desc Asbestos Other N 09-09-106	208123455-39 Location: Section #1, Glue cription: Yellow, Homogeneous, Non-Fibrous, Bulk Mate Types: laterial: Cellulose Trace, Non-fibrous 100 % 208123455-40 Location: Section #1, 12x12 FT Bottom Layer cription: Bulk Material		(by CVES) by Ivan H. Reyes on 12/27/08
Analyst Desc Asbestos Other M 19-09-106 12 Analyst Desc Asbestos Other M	208123455-39 Location: Section #1, Glue cription: Yellow, Homogeneous, Non-Fibrous, Bulk Mate Types: laterial: Cellulose Trace, Non-fibrous 100 % 208123455-40 Location: Section #1, 12x12 FT Bottom Layer cription: Bulk Material	rial	(by CVES) by Ivan H. Reyes on 12/27/08 NA/PS
Analyst Desc Asbestos Other M 09-09-106 12 Analyst Desc Asbestos Other M	208123455-39 Location: Section #1, Glue cription: Yellow, Homogeneous, Non-Fibrous, Bulk Mate Types: laterial: Cellulose Trace, Non-fibrous 100 % 208123455-40 Location: Section #1, 12x12 FT Bottom Layer cription: Bulk Material Types: laterial:	rial No	(by CVES) by Ivan H. Reyes on 12/27/08

Client No.	/ HGA Lab No.	Asbestos Present	Total % Asbestos
09-09-108 13 Analyst De	208123455-42 Location: Section #1, 12x12 FT Top Layer escription: OffWhite, Homogeneous, Non-Fibrous, Bulk Mat	No erial	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Asbest	tos Types: r Material: Cellulose Trace, Non-fibrous 100 %		
09-09-109	208123455-43	Yes	6 %
14	Location: Section #1, Mastic On Styrofoam		(by CVES) by Ivan H. Reyes on 12/27/08
Asbest	scription: Black, Homogeneous, Non-Fibrous, Bulk Materia os Types: Chrysotile 6.0 % Material: Non-fibrous 94 %	l	
09-09-110	208123455-44		NA/PS
14	Location: Section #1, Mastic On Styrofoam		14/-01-0
Asbeste	scription: Bulk Material os Types: Material:		
09-09-111	208123455-45		NA/PS
14	Location: Section #1, Mastic On Styrofoam		
Asbesto	scription: Bulk Material os Types: Material:		
9-09-112	208123455-46	No	NAD
5	Location: Section #1, Yellow Flooring		(by CVES) by Ivan H. Reyes on 12/27/08
Asbesto	scription: Yellow, Homogeneous, Non-Fibrous, Bulk Materia S Types: Material: Non-fibrous 100 %	il	
9-09-113	208123455-47	No	NAD
5	Location: Section #1, Yellow Flooring		(by CVES) by Ivan H. Reyes on 12/27/08
	cription: Yellow, Homogeneous, Non-Fibrous, Bulk Materia		

AmeriSci Job #: 208123455 Client Name: Hygenix, Inc.

PLM Bulk Asbestos Report

CHEILLI	No. / HGA	Lab No.	Asbestos Present	Total % Asbesto
09-09-1 ¹ 15	Locatio	208123455-48 n: Section #1, Yellow Flooring w, Homogeneous, Non-Fibrous, Bulk Ma	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
A:	sbestos Types: Other Material: Non-		aconai	
09-09-1	15	208123455-49	No	NAD
16	Location	n: Section #1, - Office, Gray Cove Base	-	(by CVES) by Ivan H. Reyes on 12/27/08
As	sbestos Types:	Homogeneous, Non-Fibrous, Bulk Mate lose Trace, Non-fibrous 100 %	rial	OII ILIZIIOU
09-09-11	16	208123455-50	No	NAD
16	· -	n: Section #1, - Office, Gray Cove Base	- 	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Amalu	of Bonouludians Ton			011 12/2/100
As (sbestos Types: Other Material: Cellu	Homogeneous, Non-Fibrous, Bulk Mate	rial .	on (azito)
As 0 09-09-11	sbestos Types: Other Material: Cellu		No	NAD (by CVES) by Ivan H. Reyes
As 09-09-11 16 Analys As	sbestos Types: Other Material: Cellu 17 Location st Description: Tan, abestos Types:	lose Trace, Non-fibrous 100 % 208123455-51 Section #1, - Office, Gray Cove Base Homogeneous, Non-Fibrous, Bulk Mater	No Adhesive	NAD (by CVES)
As 09-09-11 16 Analys As	sbestos Types: Other Material: Cellu 17 Location st Description: Tan, abestos Types:	208123455-51 Section #1, - Office, Gray Cove Base	No Adhesive	NAD (by CVES) by Ivan H. Reyes
As 09-09-11 16 Analys As	Shestos Types: Other Material: Cellu- 17 Location st Description: Tan, sbestos Types: Other Material: Cellu-	lose Trace, Non-fibrous 100 % 208123455-51 Section #1, - Office, Gray Cove Base Homogeneous, Non-Fibrous, Bulk Mater	No Adhesive	NAD (by CVES) by Ivan H. Reyes on 12/27/08 NAD (by CVES) by Ivan H. Reyes
Analys Analys As C 09-09-11	Shestos Types: Other Material: Cellul 17 Location st Description: Tan, abestos Types: Other Material: Cellul 18 Location st Description: Yellossestos Types:	lose Trace, Non-fibrous 100 % 208123455-51 Section #1, - Office, Gray Cove Base Homogeneous, Non-Fibrous, Bulk Mater lose Trace, Non-fibrous 100 % 208123455-52	No Adhesive rial	NAD (by CVES) by Ivan H. Reyes on 12/27/08 NAD (by CVES)
As (0) 09-09-11 16 Analys As (0) 09-09-11 7	Shestos Types: Other Material: Cellul 17 Location st Description: Tan, abestos Types: Other Material: Cellul 18 Location at Description: Yello abestos Types: Other Material: Cellul	208123455-51 Section #1, - Office, Gray Cove Base Homogeneous, Non-Fibrous, Bulk Mater lose Trace, Non-fibrous 100 % 208123455-52 Section #2, Adhesive	No Adhesive rial	NAD (by CVES) by Ivan H. Reyes on 12/27/08 NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analys Analys Analys Analys Analys Analys Analys Analys	Shestos Types: Other Material: Cellu 17 Location st Description: Tan, sbestos Types: Other Material: Cellu 18 Location st Description: Yello sbestos Types: Other Material: Cellu 19	208123455-51 E Section #1, - Office, Gray Cove Base Homogeneous, Non-Fibrous, Bulk Mater lose Trace, Non-fibrous 100 % 208123455-52 E Section #2, Adhesive M/Black, Heterogeneous, Non-Fibrous, E ose Trace, Non-fibrous 100 %	No Adhesive rial No Sulk Material	NAD (by CVES) by Ivan H. Reyes on 12/27/08 NAD (by CVES) by Ivan H. Reyes

	HGA Lab No.	Asbestos Present	Total % Asbesto
09-09-120 17	208123455-54 Location: Section #2, Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Asbesto:	cription: Yellow/Black, Heterogeneous, Non-Fibrous, B Types: Material: Cellulose Trace, Non-fibrous 100 %	Bulk Material	
09-09-121	208123455-55		NA/PS
18	Location: Section #2, 12x12 Tan FT		
Asbestos	cription: Bulk Material 3 Types: Material:		
09-09-122	208123455-56	No	NAD
17	Location: Section #2, Adhesive		(by CVES) by Ivan H. Reyes on 12/27/08
Asbestos			
	laterial: Cellulose Trace, Non-fibrous 100 % 208123455-57		NA/PS
09-09-123			NA/PS
09-09-123 18	208123455-57 Location: Section #2, 12x12 Tan FT cription: Bulk Material Types:		NA/PS
09-09-123 18 Analyst Desc Asbestos Other M	208123455-57 Location: Section #2, 12x12 Tan FT cription: Bulk Material Types:	No	NA/PS NAD
09-09-123 18 Analyst Desc Asbestos Other M 09-09-124	208123455-57 Location: Section #2, 12x12 Tan FT cription: Bulk Material Types: laterial: 208123455-58 Location: Section #2, 2x4 RF CT		
Analyst Desc Asbestos Other M 09-09-124 19 Analyst Desc Asbestos	208123455-57 Location: Section #2, 12x12 Tan FT cription: Bulk Material Types: laterial: 208123455-58 Location: Section #2, 2x4 RF CT cription: OffWhite, Homogeneous, Fibrous, Bulk Mate	rial	NAD (by CVES) by Ivan H. Reyes
Analyst Desc Asbestos Other M 09-09-124 19 Analyst Desc Asbestos Other M	208123455-57 Location: Section #2, 12x12 Tan FT cription: Bulk Material Types: laterial: 208123455-58 Location: Section #2, 2x4 RF CT cription: OffWhite, Homogeneous, Fibrous, Bulk Mate Types: laterial: Cellulose 45 %, Fibrous glass 30 %, Non-fit	rial	NAD (by CVES) by Ivan H. Reyes
09-09-123 18 Analyst Desc Asbestos Other M 09-09-124 19 Analyst Desc Asbestos	208123455-57 Location: Section #2, 12x12 Tan FT cription: Bulk Material Types: laterial: 208123455-58 Location: Section #2, 2x4 RF CT cription: OffWhite, Homogeneous, Fibrous, Bulk Material Types: laterial: Cellulose 45 %, Fibrous glass 30 %, Non-fib	rial Prous 25 %	NAD (by CVES) by Ivan H. Reyes on 12/27/08

Client No.	/ HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-126 19	Location: Section#		No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Asbes	escription: OffWhite, Homog tos Types: r Material: Cellulose 50 %,			
09-09-127		208123455-61	Yes	35 %
20		2, Red Furnace Insulation		(by CVES) by Ivan H. Reyes on 12/27/08
Asbes	escription: OffWhite, Homog tos Types: Chrysotile 35.0 % r Material: Non-fibrous 65 %	6	ial .	
09-09-128		208123455-62		NA/PS
20	Location: Section #2	2, Red Furnace Insulation		
Asbest	scription: Bulk Material tos Types: r Material:			
09-09-129		208123455-63		NA/PS
20	Location: Section #2	2, Red Furnace Insulation		
Asbest	scription: Bulk Material os Types: Material:			
09-09-130		208123455-64	No	NAD
21	Location: Section #2	2, Stair Tread Adhesive		(by CVES) by Ivan H. Reyes on 12/27/08
Asbest	scription: Yellow, Homogen os Types: · Material: Cellulose Trace,		erial	3.1.121,700
09-09-131	**************************************	208123455-65	No	NAD
21		, Stair Tread Adhesive		(by CVES) by Ivan H. Reyes on 12/27/08
	scription: Yellow, Homogen os Types: • Material: Cellulose Trace, I		erial	

Client No.	/ HGA Lab No.	Asbestos Present	Total % Asbestos
09-09-132 21	208123455-66 Location: Section #2, Stair Tread Adhesive		NAD (by CVES) by Ivan H. Reyes on 12/27/08
Asbes	escription: Yellow, Homogeneous, Non-Fibrous, Bu tos Types: r Material: Cellulose Trace, Non-fibrous 100 %	lk Material	On IMARIOO
09-09-133	208123455-67	No	NAD
22	Location: Section #2 - 2nd Floor, Mastic		(by CVES) by Ivan H. Reyes on 12/27/08
Asbest	scription: Black, Homogeneous, Non-Fibrous, Bull tos Types: r Material: Cellulose Trace, Non-fibrous 100 %	(Material	
09-09-134	208123455-68	Yes	3 %
23	Location: Section #2 - 2nd Floor, 12x12 W	hite FT	(by CVES) by Ivan H. Reyes on 12/27/08
Asbest	scription: Beige, Homogeneous, Non-Fibrous, Bull tos Types: Chrysotile 3.0 % r Material: Non-fibrous 97 %	k Material	
09-09-135	208123455-69	No	NAD
22	Location: Section #2 - 2nd Floor, Mastic		(by CVES) by Ivan H. Reyes on 12/27/08
Asbest	scription: Black, Homogeneous, Non-Fibrous, Bulk tos Types: r Material: Cellulose Trace, Non-fibrous 100 %	x Material	OH TEETING
09-09-136	208123455-70		NA/PS
23	Location: Section #2 - 2nd Floor, 12x12 Wi	nite FT	ivii o
Asbest	scription: Bulk Material os Types: · Material:		
	208123455-71	No	NAD
9-09-137	Landiani Castlan 40 del Place Martin		(by CVES)
22	Location: Section #3 - 1st Floor, Mastic		by Ivan H. Reyes on 12/27/08
	scription: Black, Homogeneous, Non-Fibrous, Bulkos Types:	: Material	

Client No. /	HGA Lab No.	Asbestos Present	Total % Asbestos
09-09-138 23	208123455-72 Location: Section #3 - 1st Floor, White FT		NA/PS
Asbesto	cription: Bulk Material s Types: Material:		
09-09-139	208123455-73	No	NAD
24	Location: Section #2, Cove Base Adhesive		(by CVES) by Ivan H. Reyes on 12/27/08
Asbesto	cription: Tan, Homogeneous, Non-Fibrous, Bulk Material s Types: ### ### ### ### ### ### ### #########		On 12/2/100
09-09-140	208123455-74	No	NAD
24	Location: Section #2, Cove Base Adhesive		(by CVES) by Ivan H. Reyes on 12/27/08
Asbesto	cription: Tan, Homogeneous, Non-Fibrous, Bulk Material Types: Material: Cellulose Trace, Non-fibrous 100 %		
09-09-141	208123455-75	No	NAD
24	Location: Section #2, Cove Base Adhesive		(by CVES) by Ivan H. Reyes on 12/27/08
Asbesto	cription: Tan, Homogeneous, Non-Fibrous, Bulk Material 3 Types: **Material**: Cellulose Trace, Non-fibrous 100 %		, <u></u>
09-09-142			N. 4
09-09-142 25	208123455-76 Location: Section #1, Sheetrock	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Asbestos	:ription: OffWhite/Tan, Homogeneous, Fibrous, Bulk Mate ₃ Types: laterial: Cellulose 12 %, Non-fibrous 88 %	erial	
09-09-143	208123455-77	No	NAD
25	Location: Section #2, Sheetrock		(by CVES) by Ivan H. Reyes on 12/27/08
Analyst Desc Asbestos	:ription: OffWhite/Tan, Homogeneous, Fibrous, Bulk Mate s Types:	orial	• •
	laterial: Cellulose 10 %, Non-fibrous 90 %		

Client No. /	HGA Lab No.	Asbestos Present	Total % Asbestos
09-09-144 25	208123455-78 Location: Section #3, Sheetrock	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Asbesto	c cription: OffWhite/Tan, Homogeneous, Fibrous, Bulk I os Types: Material: Cellulose 15 %, Non-fibrous 85 %	Material	
09-09-145	208123455-79	No	NAD
26	Location: Section #1, Joint Compound		(by CVES) by Ivan H. Reyes on 12/27/08
Asbesto	c ription: White, Homogeneous, Non-Fibrous, Bulk Ma os Types: Material: Cellulose Trace, Non-fibrous 100 %	terial	3.1.1. 3.1.1.1.1
09-09-146	208123455-80	No	NAD
26	Location: Section #1, Joint Compound		(by CVES) by ivan H. Reyes on 12/27/08
Asbesto	ecription: White, Homogeneous, Non-Fibrous, Bulk Mar es Types: Material: Cellulose Trace, Non-fibrous 100 %	terial	
09-09-147	208123455-81	No	NAD
26	Location: Section #1, Joint Compound		(by CVES) by Ivan H. Reyes on 12/27/08
Asbesto	cription: White, Homogeneous, Non-Fibrous, Buik Mat s Types:	terial	
Other	Material: Cellulose Trace, Non-fibrous 100 %		
09-09-148	208123455-82	No	NAD
16	Location: Section #2, Joint Compound		(by CVES) by Ivan H. Reyes on 12/27/08
26			UII 12321100
Analyst Des Asbesto	cription: White, Homogeneous, Non-Fibrous, Bulk Mat s Types: Material: Cellulose Trace, Non-fibrous 100 %	terial	UII 1222700
Analyst Des Asbesto Other	s Types:	terial No	NAD
Analyst Des Asbesto	s Types: Material: Cellulose Trace, Non-fibrous 100 %		

	GA	Lab No.	Asbestos Present	Total % Asbestos
09 - 09-150 26	Location: Section #2, Join		No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Asbestos	ription: White, Homogeneous, Types: aterial: Cellulose Trace, Non-i		nterial (1997)	
09-09-151		208123455-85	Yes	2 %
26	Location: Section #3, Join	nt Compound		(by CVES) by Ivan H. Reyes on 12/27/08
Asbestos	ription: OffWhite, Homogeneon Types: Chrysotile 2.0 % aterial: Cellulose Trace, Non-f		orial Control of the	
09-09-152		208123455-86		NA/PS
26	Location: Section #3, Join	nt Compound		
Analyst Desc Asbestos Other M				
09-09-153		208123455-87		NA/PS
26	Location: Section #3, Join	nt Compound		
Analyst Desc Asbestos Other M	••			
Asbestos	Types: aterial:	208123455-88 ration Cloth	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Asbestos Other M 09-09-154 Analyst Desc Asbestos	Types: aterial: Location: Section #1, Vib ription: Black, Homogeneous,	ration Cloth Fibrous, Bulk Materia		(by CVES)
Asbestos Other M 09-09-154 Analyst Desc Asbestos Other M	Types: aterial: Location: Section #1, Vib ription: Black, Homogeneous, Types: aterial: Fibrous glass 25 %, N	ration Cloth Fibrous, Bulk Material on-fibrous 75 % 208123455-89		(by CVES) by Ivan H. Reyes on 12/27/08
Asbestos Other M 09-09-154 Analyst Desc Asbestos	Types: aterial: Location: Section #1, Vib ription: Black, Homogeneous, Types: aterial: Fibrous glass 25 %, N	ration Cloth Fibrous, Bulk Material on-fibrous 75 % 208123455-89	i	(by CVES) by Ivan H. Reyes on 12/27/08

Metcalf & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-156	208123455-90	No	NAD
Location: S	ection #2, Elbow Residual		(by CVES) by Ivan H. Reyes on 12/27/08
Asbestos Types: Other Material: Cellulose	omogeneous, Fibrous, Bulk Material		
09-09-157	208123455-91	Yes	45 %
Location: S	ection #3, Aircell Pipe Insulation		(by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Grey, Ho Asbestos Types: Chrysotik	mogeneous, Fibrous, Bulk Material e 45.0 %		
Other Material: Cellulose			

Reporting Notes:

Analyzed by: Ivan H. Reyes

*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40

CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples or 198.6 for NOB samples (NY ELAP Lab ID11480);

Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile,FR 59,146,38970,8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab. This PLM report relates ONLY to the items tested. AlHA Lab # 102843.

Reviewed By:	END OF REPORT

		BULK	BULK SAMPLE LOG			
Client: Metcalf & Eddy	f & Eddy	-	Type: PLM			
Site: 80 Hastings Street	gs Street	208123455	Tech: JT	A Bruinoman	HYGE	HYGENIX, Inc.
Bridgeport, CT	t, CT		Date: 09/09/08	203) 374	2017 To consulting & Laboratory Services 49 Woodside Street Stanford, CT 06902 (203) 324-2222 (phone) (203) 324-3876 (fax)	49 Woodside Street Stanford, CT 06902 (203) 324-3876 (fax)
LAB ID#	SAMPLE#	SAMPLING LOCATION	NO.	DESCRIPTION	VIO	PECITY
					>	MASOLI
		•		•		
				1		
			į			
		•		4		
			4			
				1		
				•		
			2			
		•		55		
	19-60-60	Section #3 - Electrical		Dehris		
	89-60-60	*		99		
	69-60-60	3		"		
	02-60-60	Section #3 - Main Area	85	Debris		
	09-09-71	75		e e		
	09-09-72	3		8		
		CHAIN OF CUSTODY		Notes: 5 Day TAT. Till Positive		
Relinquished By	Date/Time:	Received By:	Date/Time:	Please e-mail results to itwitchell@hvgenix com	@hvgenix com	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		N	10,00			
			92)4	9)]]		

Client Metenif & Eddy Site: 80 Hastings Street Tech: T Tec			BULK	BULK SAMPLE LOG			
Tech: JT Tech: JT Tech: JT Tech: JT	Client: Metcal	If & Eddy		Type: PLM		a DAH	NIV L
SAMPLE # SAMPLING LOCATION Description	Site: 80 Hastin	ngs Street		Tech: JT	Finvironments	ol Consultino & La	TVLA, INC. Borging Service
SAMPLE # SAMPLING LOCATION DESCRIPTION QTY. 09-09-74	Bridgepo		345	Date: 09/09/08	(203) 324	45 Str -2222 (phone) (20	Woodside Stre mford, CT 069 3) 324-3876 (fa
09-09-73 Section #3 Compression Gasket 09-09-74 " 09-09-75 Section #3 - Boiler Room Debris 09-09-76 Section #1 - 2 nd Floor Cove Base Adhesive 09-09-79 Section #1 - 2 nd Floor Cove Base Adhesive 09-09-80 " " 09-09-81 " Adhesive 09-09-82 Section #1 - 2 nd Floor 12x12 Gray FT 09-09-83 " Adhesive 09-09-85 " Adhesive 09-09-87 " 12x12 Gray FT 09-09-89 " Adhesive 09-09-80 " 12x12 Gray FT 09-09-87 " 2x4 RF CT 09-09-89 " " 09-09-80 " " 09-09-81 " 12x12 Gray FT 09-09-82 " " 09-09-83 " " 09-09-84 " " 09-09-85 " " 09-09-86 " " <	LAB ID#	SAMPLE#	SAMPLING LOCAT	ION	DESCRIPTION	OTY.	RESULT
09-09-74 " 09-09-75 Section #3 - Boiler Room 09-09-78 " 09-09-78 " 09-09-78 " 09-09-81 " 09-09-82 Section #1 - 2 nd Floor 09-09-83 " 09-09-84 " 09-09-85 " 09-09-85 " 09-09-86 " 09-09-86 " 09-09-87 " 09-09-89 Section #1 09-09-90 " CHAIN OF CUSTODY CLAIN OF CUSTODY Ogenous Application: Date/Time: Received By: Date/Time:		69-69-73	Section #3		Compression Gasket		
09-09-75 Section #3 - Boiler Room 09-09-76 Section #1 - Side Floor 09-09-78 " 09-09-79 Section #1 - 2nd Floor 09-09-81 " 09-09-82 Section #1 - 2nd Floor 09-09-83 " 09-09-84 " 09-09-85 " 09-09-86 " 09-09-87 " 09-09-89 " 09-09-89 " 09-09-89 " 09-09-89 " 09-09-89 " 09-09-89 " 09-09-89 " 09-09-89 " 09-09-89 " 09-09-89 " CHAIN OF CUSTODY " CHAIN OF CUSTODY CHAIN OF CUSTODY		09-09-74	3		***		
09-09-76 Section #3 – Boiler Room 09-09-77		09-09-75	99		**		
09-09-77 " 09-09-78 " 09-09-79 Section #1 - 2nd Floor 09-09-81 " 09-09-82 Section #1 - 2nd Floor 09-09-83 " 09-09-84 " 09-09-85 " 09-09-87 " 09-09-89 " 09-09-89 " 09-09-89 " 09-09-90 " CHAIN OF CUSTODY " CHAIN OF CUSTODY " CHAIN OF CUSTODY "		92-60-60	Section #3 – Boiler R	oom	Debris		
09-09-78 " 09-09-79 Section #1 - 2nd Floor 09-09-81 " 09-09-82 Section #1 - 2nd Floor 09-09-83 " 09-09-84 " 09-09-85 " 09-09-87 " 09-09-87 " 09-09-89 " 09-09-89 " 09-09-90 " CHAIN OF CUSTODY " CHAIN OF CUSTODY " CHAIN OF CUSTODY "		<i>LL-</i> 60-60	99		99		
09-09-79 Section #1 - 2 nd Floor 09-09-81		84-60-60	33		27		
09-09-80		62-60-60	Section #1 – 2 nd Flo	Of	Cove Base Adhesive		
09-09-81 " 09-09-82 Section #1 – 2 nd Floor 09-09-84 " 09-09-85 " 09-09-86 " 09-09-87 " 09-09-89 Section #1 09-09-90 " CHAIN OF CUSTODY CHAIN OF CUSTODY 12 [7.6]		08-60-60	97		***************************************		
09-09-82 Section #1 – 2 nd Floor 09-09-83 " 09-09-85 " 09-09-87 " 09-09-87 " 09-09-89 Section #1 09-09-90 " CHAIN OF CUSTODY CHAIN OF CUSTODY 12 [776		09-09-81	99		***		
09-09-83		09-09-82	Section #1 – 2 nd Flo	Or	Adhesive		
09-09-84 " 09-09-85 " 09-09-87 " 09-09-88 Section #1 09-09-89 " 09-09-90 " CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY (2.7.7.0		09-09-83	99		12x12 Gray FT		
09-09-85 09-09-86 09-09-87 09-09-89 09-09-89 09-09-90 CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY		09-09-84	3		Adhesive		
09-09-86 09-09-87 09-09-88 09-09-89 09-09-90 CHAIN OF CUSTODY CHAIN Exceived By: Date/Time: CALIN C		69-69-85	29		12x12 Gray FT		
09-09-87 09-09-88 09-09-89 CHAIN OF CUSTODY CHAIN E Received By: Date/Time: CALIN C CUSTODY CALIN		98-60-60	99		Adhesive		
09-09-89 " " 09-09-89 " " CHAIN OF CUSTODY Date/Time: Received By: Date/Time:		09-09-87	99		12x12 Gray FT		
09-09-89 09-09-90 CHAIN OF CUSTODY Date/Time: Date/Time: (2.1.7.6		88-60-60	Section #1		2x4 RF CT		
CHAIN OF CUSTODY CHAIN OF CUSTODY Date/Time: Received By: Date/Time:		68-60-60	3		99		
CHAIN OF CUSTODY Date/Time: Received By: Date/Time: (2.776		06-60-60	3		99		
Date/Time: Received By: Date/Time:					Notes: 5 Day TAT. Till Positive		
2/20	Relipquished B	$ \wedge $	Received By:	te/Time:	Please e-mail results to itwitchell	l@hveenix.com	
	Y						
1			112	12/2/6	1/16		
•			ンノ	•	+ 1 1/2		

Cilcent: Metchalf & Eddy Type: PLM T	Setreet CT 2 0 8 1 2 3 4 5 5 CT 2 0 8 1 2 3 4 5 5 SAMPLE # SAMPLING LOCATION O9-09-91 O9-09-92 O9-09-95 O9-09-96 O9-09-96 O9-09-97 O9-09-98 CO-09-102 O9-09-103 O9-09-103 CHAIN OF CUSTODY Date: 109/09/08 CT 2 0 8 1 2 3 4 5 5 Date: 09/09/08 Colling Tile A Colling Tile							
CT 2 8 2 5 5 5 5 5 5 5 5 5	CT 2 0 8 1 2 3 4 5 5 Date: 09/09/08 SAMPLE # Section #1 - 2 ²⁴ Floor Ceiling Tile An O9-09-93 Ceiling #1 Ceiling Tile An O9-09-94 Section #1 Ceiling Tile An O9-09-95 Ceiling Tile An O9-09-95 Ceiling #1 Kiin Insulation	Client: Metcalf & Eddy		Type	e: PLM			ATT T
SAMPLE# SAMPLING LOCATION DESCRIPT 09-09-94 Section #1 - 2 ¹¹ Floor C9-09-93 " " Ceiling Tile Au 09-09-93 " " Ceiling Tile Au 09-09-94 Section #1 Kiin Insular 09-09-95 " " " " " " " " " " " " " " " " " " "	CT 2 0 8 1 2 3 4 5 5 Date: 09/09/08 Date: 09/09/08 SAMPLE# SAMPLING LOCATION DESCRIPT 09-09-34 Section #1 - 2 ^m Floor Ceiling Tile Au 09-09-94 Section #1 Kilin Insulat 09-09-95 " " 09-09-96 " " 09-09-97 Section #1 Kilin Insulat 09-09-98 " " 09-09-99 " Glue 09-09-101 " Glue 09-09-102 " Glue 09-09-103 " Glue 09-09-104 " 12x12 FT Botto 09-09-105 " 12x12 FT Top 09-09-106 " 12x12 FT Top 09-09-107 " Glue 09-09-108 " 12x12 FT Top 09-09-106 " 12x12 FT Top 09-09-107 " 12x12 FT Top 09-09-108 " 12x12 FT Top 09-09-109 " 12x12 FT Top 09-09-10	Site: 80 Hastings Street		Tech	<u> </u>	87		
SAMPLE# SAMPLING LOCATION DESCRIPTION 09-09-91 Section #1 - 2 nd Floor Ceiling Tile Adhen 09-09-92 " " 09-09-94 Section #1 Kilin Insulation 09-09-95 " " 09-09-96 " Clue 09-09-97 Section #1 Kilin Insulation 09-09-96 " Clue 09-09-97 " Clue 09-09-98 " Clue 09-09-99 " Clue 09-09-100 " Clue 09-09-101 " Clue 09-09-102 " Clue 09-09-103 " Clue 09-09-104 " I2x12 FT Botton I 09-09-105 " Clue 09-09-107 " Clue 09-09-108 " I2x12 FT Bottom I 09-09-107 " I2x12 FT Top La 09-09-108 " I2x12 FT Top La 09-09-108 " I2x12 FT Top La <th>SAMPLE # SAMPLING LOCATION 09-09-91 09-09-92 09-09-93 09-09-95 09-09-96 09-09-98 09-09-100 09-09-101 09-09-103 09-09-104 09-09-105 09-09-107 09-09-107 09-09-108 CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY</th> <th>Bridgeport, CT</th> <th>208</th> <th>23455</th> <th>80/00/00</th> <th>SAC CACC</th> <th>Consuming & Lar 49 Star 727 (mhone) (200</th> <th>Operation Ser Woodside S mford, CT 0</th>	SAMPLE # SAMPLING LOCATION 09-09-91 09-09-92 09-09-93 09-09-95 09-09-96 09-09-98 09-09-100 09-09-101 09-09-103 09-09-104 09-09-105 09-09-107 09-09-107 09-09-108 CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY	Bridgeport, CT	208	23455	80/00/00	SAC CACC	Consuming & Lar 49 Star 727 (mhone) (200	Operation Ser Woodside S mford, CT 0
09-09-91 Section #1 - 2 ^M Floor Ceiling Tile Adhesive 09-09-92 " 09-09-93 Section #1 09-09-95 " 09-09-96 " 09-09-97 Section #1 09-09-98 " 09-09-99 " 09-09-99 " 09-09-90 " 09-09-101 " 09-09-102 " 09-09-103 " 09-09-104 " 09-09-105 " 09-09-107 " 09-09-108 " 09-09-107 " 09-09-108 " 09-09-107 " 09-09-108 " 09-09-107 " 09-09-108 " 09-09-107 " 09-09-108 " 09-09-109 " 09-09-107 " 09-09-108 " 09-09-108 " 09-09-109 " 09-0	09-09-91 Section #1 - 2 nd Floor 09-09-92 " 09-09-93 " 09-09-94 Section #1 09-09-95 " 09-09-96 " 09-09-97 Section #1 09-09-98 " 09-09-99 " 09-09-101 " 09-09-102 " 09-09-104 " 09-09-105 " 09-09-107 " 09-09-108 " 09-09-108 " 09-09-108 " CHAIN OF CUSTODY " CHAIN OF CUSTODY "	-	PLE#	SAMPLING LOCATION		DESCRIPTION) ALC	PESTI
09-09-92 09-09-93 09-09-93 09-09-95 09-09-96 09-09-97 09-09-98 09-09-101 09-09-101 09-09-104 09-09-105 09-09-105 09-09-106 09-09-107 09-09-107 09-09-108 CHAIN OF CUSTODY CHAIN OF CUSTODY	09-09-92 " 09-09-93 " 09-09-93 " 09-09-95 " 09-09-96 " 09-09-97 Section #1 09-09-98 " 09-09-99 " 09-09-101 " 09-09-102 " 09-09-103 " 09-09-104 " 09-09-105 " 09-09-107 " 09-09-108 " 09-09-108 " 09-09-108 " 09-09-108 " CHAIN OF CUSTODY " CHAIN OF CUSTODY "	960	16-60	Section #1 – 2 nd Floor		Ceiling Tile Adhesive		10001
09-09-93 09-09-94 09-09-94 09-09-96 09-09-98 09-09-100 09-09-101 09-09-102 09-09-103 09-09-104 09-09-105 09-09-106 09-09-108 0	09-09-93)-60 —	09-92	99		79		
09-09-94 Section #1 09-09-95 " 09-09-96 " 09-09-98 " 09-09-99 " 09-09-101 " 09-09-102 " 09-09-104 " 09-09-105 " 09-09-106 " 09-09-107 " 09-09-107 " CHAIN OF CUSTODY CHAIN OF CUSTODY	09-09-94 Section #1 09-09-95 " 09-09-96 " 09-09-98 " 09-09-100 " 09-09-101 " 09-09-102 " 09-09-104 " 09-09-105 " 09-09-105 " 09-09-106 " 09-09-107 " 09-09-107 " 09-09-107 " 09-09-107 " 09-09-106 " 09-09-107 " 09-09-107 " 09-09-107 " 09-09-107 " 09-09-107 " 09-09-107 " 09-09-107 " 09-09-107 " 09-09-107 " 09-09-107 " 09-09-107 " 09-09-107 " 09-09-107 " 09-09-108 " 09-09-107 " 09-09-108 " 09-09-109 " 09-09-107 " 09-09-108 " 09-09-109 " 09-09-107 " 09-09-108 " 09-09-109 " 09-09 " 09-09 " 09-09 " 09-09 " 09-09 " 09-09 " 09-09 " 09-09 " 09-09 " 0)-60	09-93	99		99		
09-09-95 09-09-96 09-09-98 09-09-98 09-09-100 09-09-101 09-09-102 09-09-105 09-09-105 09-09-106 09-09-107 09-09-108 CHAIN OF CUSTODY CHAIN OF CUSTODY Og-09-108 CHAIN OF CUSTODY	09-09-95 09-09-96 09-09-98 09-09-98 09-09-100 09-09-101 09-09-102 09-09-104 09-09-105 09-09-105 09-09-107 09-09-107 09-09-108)-60	99-94	Section #1		Kiln Insulation		
09-09-96 09-09-97 8ection #1 09-09-98 09-09-99 09-09-100 09-09-101 09-09-103 09-09-104 09-09-105 09-09-105 09-09-107 09-09-107 09-09-107 09-09-108 09-09-108 09-09-107 09-09-108 09-09-108 09-09-107 09-09-108 09-09-108 09-09-108 09-09-108 09-09-108 09-09-107 09-09-108 09-09-109	09-09-96 09-09-97 8ection #1 09-09-98 09-09-99 09-09-101 09-09-102 09-09-103 09-09-104 09-09-105 09-09-105 09-09-107 09-09-107 09-09-108)-60	99-95	99		**		
09-09-97 09-09-98 09-09-98 09-09-99 09-09-100 09-09-101 09-09-104 09-09-105 09-09-106 09-09-106 09-09-108 CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY	09-09-97 Section #1 09-09-98)-60	96-60	23		**		
09-09-98	09-09-98	0-60	16-60	Section #1		Glue		
09-09-99 09-09-100 09-09-101 09-09-102 09-09-103 09-09-105 09-09-106 09-09-107 09-09-108 CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY	09-09-99 09-09-100 09-09-101 09-09-102 09-09-104 09-09-105 09-09-106 09-09-107 09-09-107 09-09-108 CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY	J-60	86-66	. 99		12x12 FT Bottom Layer		
09-09-100 09-09-101 09-09-102 09-09-103 09-09-104 09-09-105 09-09-106 09-09-107 09-09-107 CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY	09-09-100 09-09-101 09-09-102 09-09-103 09-09-104 09-09-105 09-09-106 09-09-107 09-09-107 CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY	0-60	66-66	29		Glue		
09-09-101 09-09-102 09-09-103 09-09-104 09-09-106 09-09-106 09-09-107 CHAIN OF CUSTODY CHAIN OF CUSTODY 3 7 7 7	09-09-101	0-60	9-100	"		12x12 FT Top Layer		
09-09-102 09-09-103 09-09-104 09-09-105 09-09-106 09-09-108 CHAIN OF CUSTODY CHAIN OF CUSTODY	09-09-102 09-09-103 09-09-104 09-09-105 09-09-106 09-09-107 09-09-108 CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY	0-60	9-101	99		Glue		
09-09-103 09-09-104 09-09-105 09-09-106 09-09-107 09-09-108 CHAIN OF CUSTODY CHAIN OF CUSTODY 3 17 1	09-09-103 09-09-104 09-09-105 09-09-106 09-09-107 09-09-108 CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY	0-60	9-102	99		12x12 FT Bottom Layer		
09-09-104 09-09-105 09-09-106 09-09-107 09-09-108 CHAIN OF CUSTODY CHAIN OF CUSTODY	09-09-104 09-09-105 09-09-106 09-09-107 CHAIN OF CUSTODY CHAIN CF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY CHAIN OF CUSTODY	0-60	9-103	99		Glue		
09-09-105 09-09-106 09-09-107 CHAIN OF CUSTODY CHAIN CECeived By: Date/Time:	09-09-105 09-09-106 09-09-107 CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	0-60	9-104	99		12x12 FT Top Layer		
09-09-106 09-09-107 CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	09-09-107 " 09-09-107 " CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	0-60	9-105	79		Glue		
09-09-107 CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	09-09-107	0-60	9-106	33		12x12 FT Bottom Layer		
09-09-108 CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	09-09-108 CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	90-60	9-107	**		Glue		
CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	CHAIN OF CUSTODY Date/Time: Received By: Date/Time:	50-60				12x12 FT Top Layer		
Date/Time: Received By: Date/Time:	. Date/Time: Received By: Date/Time:		CHAIN			Notes: 5 Day TAT. Till Positive		
121		Relinquished By.	Date/Time:		*	Please e-mail results to itwitchell@	Zhvgenix.com	
121			\bigcap	9				
	121		\ \ 	111	1010	11-113		

₽

Type: PLM	Type: PLM Tech: JT		BULK SAMPLE LOG	
Tech: JT Pate: 09/09/08 Environmental Con	Tech: JT Tech: JT Tech: JT Tech: JT Tech: JT Tech: JT Tech: JT Tech: JT Jate: 09/09/08 Caray Cove Base Adhesive Land Caray Cove Base Adhesive Land Caray Cove Base Adhesive Land Caray Cove Base Adhesive Land Caray Cove Base Adhesive Land Caray Cove Base Adhesive Land Caray Cove Base Adhesive Land Caray Cove Base Adhesive Land Caray Car			YGENIX, In
Date: 09/09/08 DESCRIPTION OTY.	5 5		Environmental Con-	ing & Laboratory Serv
DESCRIPTION QTY.	Thick Description Other	2081	5 5 Date: 09/09/08	49 Woodside Si Stamford, CT 06 one) (203) 324-3876 (
Section #1 " Section #1 " tion #1 – Office " Section #2 " " Section #2 " " " Section #2 " " " Section #2 " " " " Section #2 " " " " Section #2 " " " " " " " " " " " " " " " " " "	Section #1 " Section #1 " tion #1 – Office " " " Section #2 " " " " Section #2 " " " " Section #2 " " " " Section #2 " " " Section #2 " " " Section #2 " " " " " " " " " " " " " " " " " "	SAMPLE #	DESCRIPTION	
# Section #1 # in the control of th	# Section #1 # in #1 – Office # in #2 # in #2 # in #2 # in #2 # in #2 # in #3 # in #4 # in # in #4 # in # in #4 # in # in #4 # in ## in #4 # in ## in ## in ## # in ## in ## # in ## in ## # in ## in ## # in ## in ## # in ## in ## # in ##	60-60-100		
Section #1 " tion #1 – Office " Section #2 " " " Section #2 " " " " " " " " " " " " " " " " " "	Section #1 " " " " Section #2 " " " " " " " " " " " " " " " " " "	09-09-110		
Section #1 " trion #1 – Office " Section #2 " " " " " " Section #2 " " " " " " " " " " " " " " " " " "	Section #1 " " " " Section #2 " " " " " " " " " " " " " " " " " " "	09-09-111		
# # # # # # # # # # # # # # # # # # #	# # # # # # # # # # # # # # # # # # #	09-09-112		
# # # # # # # # # # # # # # # # # # #	# #1 - Office # Section #2 # # Section #2 # # # # # # # # # # # # # # # # # #	09-09-113		
tion #1 – Office " Section #2 " " " " Section #2 " " " " " " " " " " " " " " " " " "	rtion #1 – Office " Section #2 " " " Section #2 " " " " " " " " " " " " " " " " " "	09-09-114		
Section #2 " " " Section #2 " Section #2 " " Section #2 " " " " " " " " " " " " "	Section #2 " " " " Section #2 " " " Section #2 " 12 2 2	09-09-115		
Section #2 " " " Section #2 " Section #2 " Section #2 " Section #3	Section #2 " " " Section #2 " Section #2 " Section #2 " 12 6 2 6	09-09-116		
Section #2 " " Section #2 " Section #2 " " " " "	Section #2 " " Section #2 " Section #2 " " " " 12 2 2	09-09-117		
" " Section #2 " " " " " " " " "	Section #2 " " " " " " " " " " " " " " " " " "	9-118		
section #2 " " " " " " " " " " " " " " " " " "	Section #2 " " " " " " " " " " " " "	09-09-119		
# # # # # # # # # # # # # # # # # # #	% Section #2 % % % % % % % % % % % % % % % % % %	9-120		
Section #2 " " " " Date/Time:	Section #2 " " " Date/Time:	09-09-121		
Section #2 " " Date/Time:	Section #2 " " " " " 12 2 2	09-09-122		
Section #2 " " Date/Time:	Section #2 Date/Time: (2 (2 (2)	09-09-123		
" " Date/Time:	". Date/Time:	09-09-124		
" Sy: Date/Time:	5y: Date/Time:	09-09-125		
y; Date/Time:	y; Date/Time:	09-09-126		
Date/Time:	Date/Time:	CHAIN OF CUSTODY		
	12 26	Date/Time: Rec	Date/Time:	nix.com

Client: Montalif & Eddy Client: Montalif			BULK	BULK SAMPLE LOG			
2 0 8 1 2 3 4 5 5 Tech: JT Section #2 Date: 09/09/08 Date: 09/09/08 Environmental Communication Description Ob-122 Section #2 Section #2 Section #2 Stair Tread Adhesive Ob-132 Section #3 Section #	Client: Metca	ilf & Eddy		Type: PLM		HYGE	NIX Inc
SAMPLE # SAMPLING LOCATION DESCRIPTION QTY.	Site: 80 Hasti	2 0	12345	Tech: JT	Environmental	Consulting & La	boratory Service
SAMPLE# SAMPLING LOCATION DESCRIPTION OTV. 09-09-127 Section #2 Red Furnace Insulation 09-09-128 "	Bridgep	ort, CT		Date: 09/09/08	(203) 324	49 Sta -2222 (phone) (20)	 Woodside Streemford, CT 0690; 3) 324-3876 (fax
Og-09-127 Section #2 Red Furnace Insulation	LABID	SAMPLE#	SAMPLINGTOCATI	NO	DESCRIPTION	OTY.	RESULT
09-09-128 09-09-129 09-09-129 09-09-130 09-09-131 09-09-134 09-09-135 09-09-136 09-09-137 09-09-138 09-09-140 09-09-140 09-09-141 09-09-142 Section #2 09-09-144 09-09-144 Section #1 09-09-144 Section #1 09-09-144 Section #2 09-09-144 Section #2 09-09-144 Section #2 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3		09-09-127	Section #2		Red Furnace Insulation		
09-09-129 09-09-130 09-09-131 09-09-131 09-09-132 09-09-134 09-09-135 09-09-137 09-09-137 09-09-139 09-09-140 09-09-142 09-09-142 09-09-143 09-09-143 Section #2 09-09-144 09-09-144 Section #2 O9-09-144 Section #2 O9-09-144 Section #2 O9-09-144 Section #3 CHAIN OF CUSTODY (2.(2.b. t)		09-09-128	79		27		
09-09-130 09-09-131 09-09-131 09-09-132 09-09-133 09-09-135 09-09-136 09-09-137 09-09-138 09-09-139 09-09-140 09-09-141 09-09-142 09-09-142 09-09-143 09-09-144 Section #2 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3		09-09-129	77		99		
09-09-131 09-09-132 09-09-133 09-09-134 09-09-135 09-09-137 09-09-137 09-09-139 09-09-140 09-09-142 09-09-142 09-09-142 09-09-142 Section #2 09-09-142 Section #2 09-09-144 Section #3 O9-09-144 Section #3 O9-09-144 Section #3 O9-09-144 Section #3 O9-09-144 Section #3 O9-09-144 Section #3 O9-09-144 Section #3 O9-09-144 Section #3 O9-09-144 Section #3 O9-09-144 O9-09-144 Section #3 O9-09-144 O9-09-144 Section #3 O9-09-144 O9-09-144 O9-09-144 O9-09-144 O9-09-142 O9-09-09-142 O9-09-09-09-142 O9-09-09-09-09-09-09-09-09-09-09-09-09-09		09-09-130	Section #2		Stair Tread Adhesive		
09-09-132 09-09-133 09-09-135 09-09-135 09-09-136 09-09-137 09-09-138 09-09-139 09-09-140 09-09-141 09-09-142 09-09-142 CHAIN OF CUSTODY Bate/Time: Received By: Date/Time:		09-09-131	99		29		
09-09-133 Section #2 – 2 nd Floor 09-09-134 " 09-09-135 " 09-09-137 Section #2 – 1 nd Floor 09-09-139 Section #2 09-09-141 " 09-09-142 Section #1 09-09-143 Section #1 09-09-144 Section #2 09-09-145 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3		09-09-132	99		22		
09-09-134 " 09-09-135 " 09-09-137 Section #2 – 1# Floor 09-09-138 " 09-09-139 Section #2 09-09-140 " 09-09-141 Section #1 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3 09-09-144 Section #3		09-09-133	Section #2 – 2 nd Floo	or	Mastic		
09-09-135		09-09-134	29		12x12 White FT		
09-09-136		09-09-135	22		Mastic		
09-09-137 Section #2 – 1 st Floor 09-09-138		09-09-136	**		12x12 White FT		
09-09-138		09-09-137	Section #2 – 1# Floc	or	Mastic		
09-09-139		09-09-138	25		12x12 White FT		
09-09-140		09-09-139	Section #2		Cove Base Adhesive		
09-09-141 09-09-142 Section #1 09-09-143 Section #2 09-09-144 Section #3 CHAIN OF CUSTODY CHAIN OF CUSTODY Bate/Time: Received By: Date/Time:		09-09-140	99		59		
09-09-142 Section #1 09-09-144 Section #2 09-09-144 CHAIN OF CUSTODY Bate/Time: Received By: Date/Time:		09-09-141	99		77		
09-09-143 Section #2 09-09-144 Section #3 CHAIN OF CUSTODY Bate/Time: Received By: Date/Time:		09-09-142	Section #1		Sheet Rock		
09-09-144 Section #3 CHAIN OF CUSTODY Date/Time: Received By: Date/Time:		09-09-143	Section #2		**		
CHAIN OF CUSTODY Bete/Time: Received By: Date/Time:	: :	09-09-144	Section #3		99		
Date/Time: Received By: Date/Time:		CHAI	CUSTODY		Notes: 5 Day TAT. Till Positive		
12/40	Relinfoughed	\		te/Time:	Please e-mail results to jtwitchell	l@hygenix.com	
48/61							
					911		

i

:

		BULKSA	BULK SAMPLE LOG			
Client: Metcalf & Eddy	if & Eddy	I	Type: PLM			NITY L
Site: 80 Hastings Street				Q	30111	nigelvia, inc.
		208123455	Tech: J.I.	Environmental	Environmental Consulting & Laboratory Services 49 Woodside Street	Laboratory Services 49 Woodside Street
Bridgeport, CT	жt, СТ			P	Stamford, CT 06902	mford, CT 06902
			Date: 09/09/08	(203) 324:	.2222 (phone) (20	3) 324-3876 (fax)
LAB ID#	SAMPLE#	SAMPLING LOCATION	Z	DESCRIPTION	OTY.	RESULT
	09-09-145	Section #1		Joint Compound		
	09-09-146	99		3		
	09-09-147	99		99		
	09-09-148	Section #2		3		
	09-09-149	99		3		
	09-09-150	79		3		
	09-09-151	Section #3		3		
	09-09-152	***		73		
	09-09-153	79		99		
	09-09-154	Section #1		Vibration Cloth		
	09-09-155	Section #1		Sink Insulation		
	09-09-156	Section #2		Elbow Residual		
	09-09-157	Section #3		Aircell Pipe Insulation		,
	EF (EF)	CHAIN OF CUSTODY		Notes: 5 Day TAT. Till Positive		
Relimquished By	By: Date/Time:	e: Received By: Date/Time:	lime:	Please e-mail results to itwitchell@hygenix.com	@hygenix.com	
			12/2/	7)//		
)		
		7				



AmeriSci New York

117 EAST 30TH ST. NEW YORK, NY 10016

TEL: (212) 679-8600 · FAX: (212) 679-3114

PLM Bulk Asbestos Report

Hygenix, Inc.

Attn: Robert Brown 49 Woodside Street

Stamford, CT 06902

See Reporting notes on last page

Date Received 12/26/08

AmeriSci Job #

208123454

Date Examined 12/26/08 P.

P.O. #

Page 1 of 2

Client No. /	HGA	Lab No.	Asbestos Present	Total % Asbestos	
•		208123454-01 #1 & #2, Cinderblock Mortar	No	NAD (by CVES) by Charmel A, Dozier on 12/26/08	
Asbesto	scription: Grey, Homoger os Types: Material: Non-fibrous 100	neous, Non-Fibrous, Cementiti) %	ous, Bulk Material	V. V 12000	
12-23-159		208123454-02	No	NAD	
1	Location: Section	#1 & #2, Cinderblock Morter	(by CVES) by Charmel A. Dozier		
Asbesto	c ription: Grey, Homoger es Types: Material: Non-fibrous 100	neous, Non-Fibrous, Cementition	ous, Bulk Meterial	on 12/26/08	
12-23-160		208123454-03	No	NAD	
1	Location: Section	#1 & #2, Cinderblock Mortar	(by CVES) by Charmel A. Dozier on 12/26/08		
Asbesto	cription: Grey, Homogen s Types: Material: Non-fibrous 100	eous, Non-Fibrous, Cementitio	ous, Bulk Material	011 12720/00	
12-23-161		208123454-04	No	NAD	
2	Location: Section:	#3, Cinderblock Morter		(by CVES) by Charmel A. Dozier	
Asbesto		eous, Non-Fibrous, Cementitio	ous, Bulk Material	on 12/26/08	
12-23-162		208123454-05	No	NAD	
2	Location: Section i	#3, Cinderblock Mortar		(by CVES) by Charmel A. Dozier on 12/26/08	
Asbesto		eous, Non-Fibrous, Cementitio	us, Bulk Material	011 12/20/00	

Page 2 of 2

PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / I	HGA Lab No.	Asbestos Present	Total % Asbestos
12-23-163	208123454-06	No	NAD
2	Location: Section #3, Cinderblock Mortar		(by CVES) by Charmel A. Dozier on 12/26/08
Analyst Desc Asbestos	ription: Grey, Homogeneous, Non-Fibrous, Cem Types:	entitious, Bulk Material	
Other N	laterial: Non-fibrous 100 %		

Reporting Notes:

Analyzed by: Charmel A. Dozier _

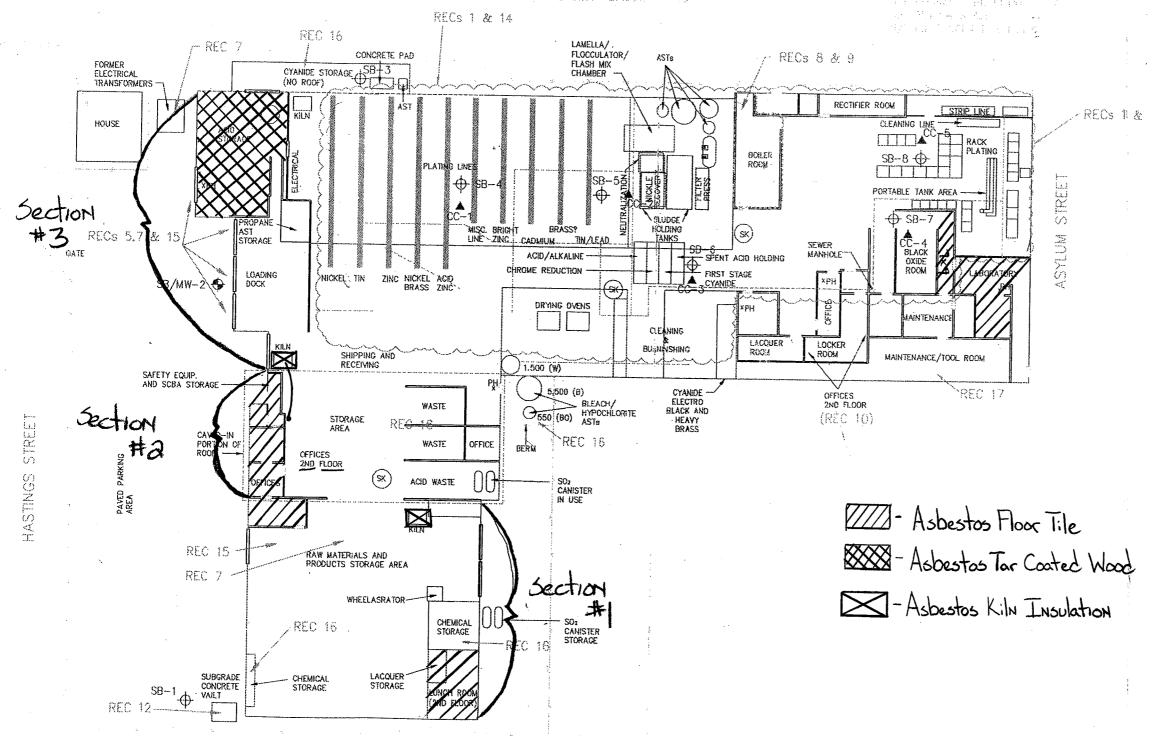
"NAD/NSD =no asbestos detacted; NA =not analyzed; NA/PS=not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples or 198.6 for NOB samples (NY ELAP Lab ID11480); Note: PLM is not consistently reliable in detacting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive. TEM is currently the only mathod that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile, FR 59.148, 38970, 8/1/94), National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab. This PLM report relates ONLY to the items tested. AIHA Lab # 102843.

F	Reviewed By:	END OF REPORT

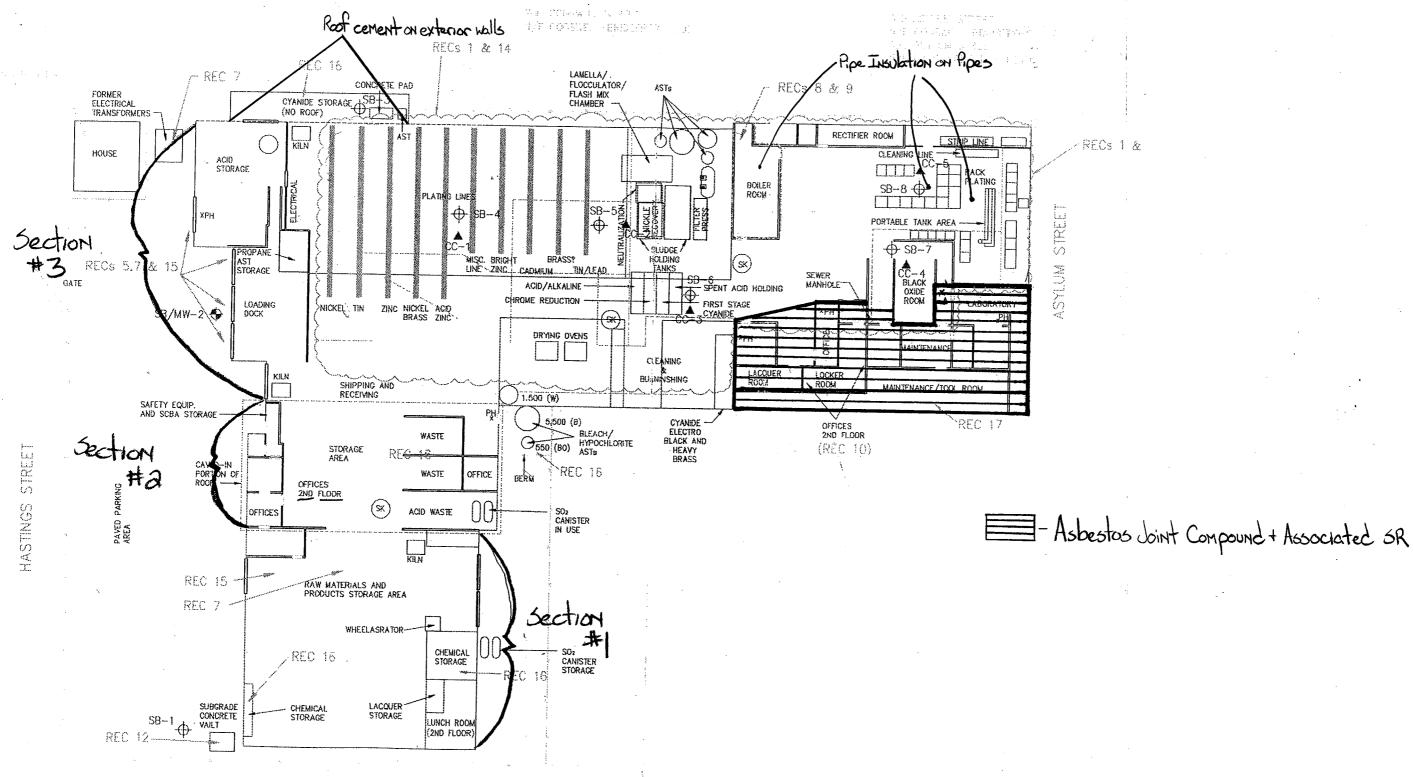
WP 60 LOG	HYGENIX, Inc.	Environmental Consulting & Laboratory Services		DESCRIPTION OTY. RESULT	Cinderblock Mortar	39	75	Cinderblock Mortar	z	**			Notes: 5 Day TAT. Till Positive	Please e-mail results to itwitchell@hygenix.com	4 11/4	
ASBESTOS PLW BULK SAMPLE LOG	Type: PLM	Tech: JT	Date: 12/23/08	SAMPLING LOCATION	Section #1 & #2	"		Section #3	39	33		# 4 A T	N OF CUSTODY		12	
	f & Eddy	gs Street	אל, כ'T	SAMPLE#	12-23-158	12-23-159	12-23-160	12-23-161	12-23-162	12-23-163			CHAINOF		By Jacktume	
	Client: Metcalf & Eddy	Site: 80 Hastings Street	Bridgeport, CT	T AR ID#										. /	Reimgurshed B	

APPENDIX B

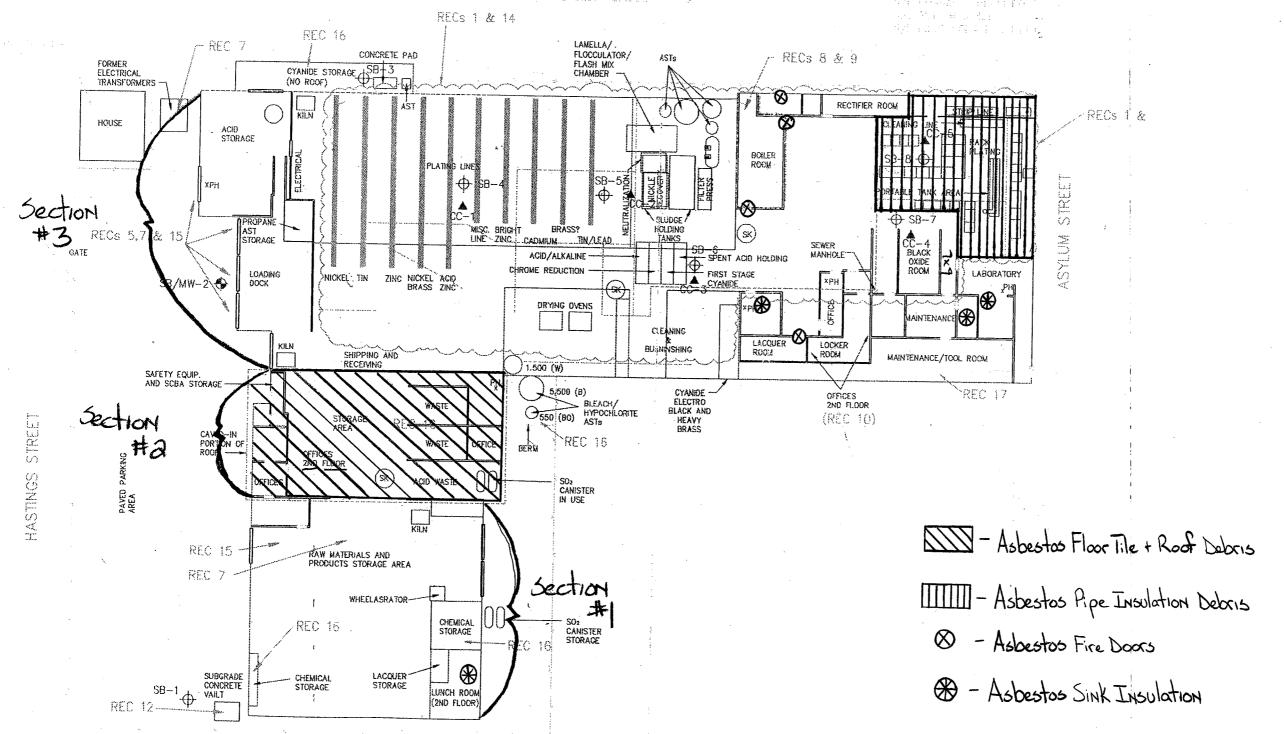
SITE MAPS



PAVED PARKING AREA



PAVED PARKING AREA



PAVED PARKING AREA



REPORT DATE 1/2/2009

METCALF & EDDY - WALLINGFORD 860 N. MAIN STREET EXTENSION WALLINGFORD, CT 06492 ATTN: DANIEL SEREMET

CONTRACT NUMBER: PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-22296

JOB NUMBER: 60045450.04

PROJECT LOCATION: 80 HASTINGS ST, BRIDGEPORT, CT

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.		
SB-12	08B50774	SOIL	Not Specified	as (mg/kg)dw icp			
SB-12	08B50774	SOIL	Not Specified	solids (percent)			
SB-13	08B50775	SOIL	Not Specified	8260 solid			
SB-13 DUP	08B50776	SOIL	Not Specified	8260 solid			
SB-14	08B50777	SOIL	Not Specified	8082 drywt			
SB-14	08B50777	SOIL	Not Specified	as (mg/kg)dw icp			
SB-14	08B50777	SOIL	Not Specified	solids (percent)			
SB-15	08B50778	SOIL	Not Specified	8082 drywt			
SB-15	08B50778	SOIL	Not Specified	as (mg/kg)dw icp			
SB-15	08B50778	SOIL	Not Specified	solids (percent)			
SB-16	08B50779	SOIL	Not Specified	etph dry weight			
SB-16	08B50779	SOIL	Not Specified	metals(13pp)sicp			
SB-16	08B50779	SOIL	Not Specified	solids (percent)			
SB-17	08B50780	SOIL	Not Specified	as (mg/kg)dw icp			
SB-17	08B50780	SOIL	Not Specified	solids (percent)			
SB-18	08B50781	SOIL	Not Specified	as (mg/kg)dw icp			
SB-18	08B50781	SOIL	Not Specified	solids (percent)			
SB-19	08B50782	SOIL	Not Specified	as (mg/kg)dw icp			
SB-19	08B50782	SOIL	Not Specified	solids (percent)			
SB-20	08B50783	SOIL	Not Specified	as (mg/kg)dw icp			
SB-20	08B50783	SOIL	Not Specified	solids (percent)			
SB-21	08B50784	SOIL	Not Specified	as (mg/kg)dw icp			
SB-21	08B50784	SOIL	Not Specified	solids (percent)			
SB-22	08B50785	SOIL	Not Specified	as (mg/kg)dw icp			
SB-22	08B50785	SOIL	Not Specified	solids (percent)			
SB-23	08B50786	SOIL	Not Specified	as (mg/kg)dw icp			
SB-23	08B50786	SOIL	Not Specified	solids (percent)			
SB-24	08B50787	SOIL	Not Specified	as (mg/kg)dw icp			
SB-24	08B50787	SOIL	Not Specified	solids (percent)			
SB-25	08B50788	SOIL	Not Specified	as (mg/kg)dw icp			
SB-25	08B50788	SOIL	Not Specified	solids (percent)			
SB-26	08B50789	SOIL	Not Specified	as (mg/kg)dw icp			
SB-26	08B50789	SOIL	Not Specified	solids (percent)			
SB-27	08B50790	SOIL	Not Specified	as (mg/kg)dw icp			
SB-27	08B50790	SOIL	Not Specified	solids (percent)			
SB-28	08B50791	SOIL	Not Specified	as (mg/kg)dw icp			
SB-28	08B50791	SOIL	Not Specified	solids (percent)			
SB-29	08B50792	SOIL	Not Specified	as (mg/kg)dw icp			
SB-29	08B50792	SOIL	Not Specified	solids (percent)			



REPORT DATE 1/2/2009

METCALF & EDDY - WALLINGFORD 860 N. MAIN STREET EXTENSION WALLINGFORD, CT 06492 ATTN: DANIEL SEREMET

CONTRACT NUMBER: PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

				LIMS BAT #: LIMT-22296
				JOB NUMBER: 60045450.04
SB-30	08B50793	SOIL	Not Specified	as (mg/kg)dw icp
SB-30	08B50793	SOIL	Not Specified	etph dry weight
SB-30	08B50793	SOIL	Not Specified	pb (mg/kg)dw icp
SB-30	08B50793	SOIL	Not Specified	solids (percent)
SB-31	08B50794	SOIL	Not Specified	as (mg/kg)dw icp
SB-31	08B50794	SOIL	Not Specified	solids (percent)
SB-32	08B50795	SOIL	Not Specified	as (mg/kg)dw icp
SB-32	08B50795	SOIL	Not Specified	etph dry weight
SB-32	08B50795	SOIL	Not Specified	pb (mg/kg)dw icp
SB-32	08B50795	SOIL	Not Specified	solids (percent)
SB-33	08B50796	SOIL	Not Specified	8260 solid
SB-34 0-2FT	08B50797	SOIL	Not Specified	as (mg/kg)dw icp
SB-34 0-2FT	08B50797	SOIL	Not Specified	solids (percent)



REPORT DATE 1/2/2009

METCALF & EDDY - WALLINGFORD 860 N. MAIN STREET EXTENSION WALLINGFORD, CT 06492 ATTN: DANIEL SEREMET

CONTRACT NUMBER: PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-22296

JOB NUMBER: 60045450.04

Comments:

LIMS BATCH NO.: LIMT-22296

CASE NARRATIVE SUMMARY

Recommended sample holding times were not exceeded for all samples unless listed below: None Exceeded

All samples for the method(s) listed were received preserved properly in the proper containers at 4°C +/- 2 degrees as specified on the chain-of-custody form unless listed below: All properly preserved

In method 8082, for Arochlor 1254 in sample 08B50778, result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. The higher result was reported.

In method 6010, the low level calibration verification is outside control limits for Zn. Reported results for this element at or near the reporting limit may be bias on the high side.

In method 8260, initial and/or continuing calibration did not meet method specifications. For all samples, Acetone, tert-Butyl Alcohol, 2-Butanone, Tetrahydrofuran, and 1,4-Dioxane were calibrated with a relative response factor <0.05.

In method 8260, any reported result for Dichlorodifluoromethane, Acetone, and tert-Butyl Alcohol in all samples is estimated and likely to be biased on the low side based on continuing calibration bias.

In method 8260, any reported result for 2,2-Dichloropropane and trans-1,4-Dichloro-2-butene in all samples is likely to be biased on the low side based on laboratory fortified blank (laboratory control sample) and duplicate recovery bias.

In method 8260, results were reported on a "wet weight" basis. No unpreserved samples were provided to determine the % solids.

There are no other analytical issues which affect the usability of the data.

DETAILED CASE NARRATIVE

METHOD SW846-7470A/7471A - ADDITIONAL COMMENTS

Sample duplicate and matrix spike performed on SOIL sample 08B50779.

METHOD SW846-6010 - ADDITIONAL COMMENTS

Only PP13 metals were requested and reported for sample 08B50779.

Only As was reported for samples 08B50774, 08B50777, 08B50778 and 08B50780 through 08B50797. Pb was reported for samples 08B50793 and 08B50795.

Sample duplicate and matrix spike performed on SOIL sample 08B50788.



REPORT DATE 1/2/2009

METCALF & EDDY - WALLINGFORD 860 N. MAIN STREET EXTENSION WALLINGFORD, CT 06492 ATTN: DANIEL SEREMET

CONTRACT NUMBER: PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #:

LIMT-22296

JOB NUMBER: 60045450.04

METHOD SW846 8082 - ADDITIONAL COMMENTS

If dilutions were performed, only one dilution within the linear calibrated region of the curve is reported. All 8082 samples were analyzed undiluted unless specified below: No dilutions were performed

CT ETPH METHOD - ADDITIONAL COMMENTS

In method CT ETPH samples 08B50779(x20), 08B50793(x10), and 08B50795(x20) were diluted because undiluted results were over the verified linear calibration range.

In method CT ETPH for samples 08B50779 and 08B50795, the surrogate concentration is below detection limit due to dilution required for sample analysis and could not be reported.

METHOD SW846 8260 SOIL - ADDITIONAL COMMENTS

The LCS recoveries for required CT reasonable confidence protocol (RCP) 8260 compounds were all within limits specified by the method except for "difficult analytes" where control limits somewhere between 40-160% are used and/or unless otherwise listed in this narrative: Difficult analytes: MIBK, MEK, Tetrachloroethylene, Tert-butyl Alcohol, Acetone, 1,4-Dioxane, Vinyl Chloride, Chloromethane, Dichlorodifluoromethane, 2-Hexanone, Naphthalene, and Bromomethane. Additional difficult analytes in water only: 2,2-Dichloropropane, and Tert-butylethyl Ether Additional difficult analytes in soil only: Acrylonitrile, Chloroethane, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, Methylene Chloride, n-Butylbenzene, and Tert-butylbenzene.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033

AIHA ELLAP (LEAD) 100033

NORTH CAROLINA CERT. #652

MASSACHUSETTS MA0100

NEW HAMPSHIRE NELAP 2516

NEW JERSEY NELAP NJ MA007 (AIR)

CONNECTICUT PH-0567

VERMONT DOH (LEAD) No. LL015036

FLORIDA DOH E871027 (AIR)

NEW YORK ELAP/NELAP 10899

RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Edward Denson 1/2/09 SIGNATURE

DATE

Tod Kopyscinski Air Laboratory Manager Michael Erickson

Assistant Laboratory Director

Edward Denson Technical Director Daren Damboragian

Organics Department Supervisor



REPORT DATE 1/2/2009

METCALF & EDDY - WALLINGFORD 860 N. MAIN STREET EXTENSION WALLINGFORD, CT 06492 ATTN: DANIEL SEREMET

CONTRACT NUMBER: PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-22296

JOB NUMBER: 60045450.04

^{*} See end of data tabulation for notes and comments pertaining to this sample



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 1 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-14

Sample ID: 08B50777 ‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date	Analyst	RL	SPEC	SPEC Limit	
			Analyzed			Lo	Hi	
PCB 1016	mg/kg dry wt	ND	12/30/08	JMR	0.121			
PCB-1221	mg/kg dry wt	ND	12/30/08	JMR	0.121			
PCB-1232	mg/kg dry wt	ND	12/30/08	JMR	0.121			
PCB-1242	mg/kg dry wt	ND	12/30/08	JMR	0.121			
PCB-1248	mg/kg dry wt	ND	12/30/08	JMR	0.121			
PCB-1254	mg/kg dry wt	ND	12/30/08	JMR	0.121			
PCB-1260	mg/kg dry wt	ND	12/30/08	JMR	0.121			
PCB 1262	mg/kg dry wt	ND	12/30/08	JMR	0.121			
PCB 1268	mg/kg dry wt	ND	12/30/08	JMR	0.121			
Extraction Date PCBs		12/27/2008	12/30/08	JMR				

Field Sample #: SB-15

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Lo	Limit Hi	P/ F
PCB 1016	mg/kg dry wt	ND	12/30/08	JMR	0.114			
PCB-1221	mg/kg dry wt	ND	12/30/08	JMR	0.114			
PCB-1232	mg/kg dry wt	ND	12/30/08	JMR	0.114			
PCB-1242	mg/kg dry wt	ND	12/30/08	JMR	0.114			
PCB-1248	mg/kg dry wt	ND	12/30/08	JMR	0.114			
PCB-1254	mg/kg dry wt	0.156	12/30/08	JMR	0.114			
PCB-1260	mg/kg dry wt	ND	12/30/08	JMR	0.114			
PCB 1262	mg/kg dry wt	ND	12/30/08	JMR	0.114			
PCB 1268	mg/kg dry wt	ND	12/30/08	JMR	0.114			
Extraction Date PCBs		12/27/2008	12/30/08	JMR				

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 2 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Analytical Method: SW846 8081/8082

SAMPLES ARE EXTRACTED BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), CONCENTRATED, AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 3 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-13

Sample ID: 08B50775 ‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date	Analyst	RL	SPEC		P/ F
			Analyzed			Lo	Hi	
Acetone	mg/kg	ND	12/30/08	LBD	0.27			
Acrylonitrile	mg/kg	ND	12/30/08	LBD	0.016			
tert-Amylmethyl Ether	mg/kg	ND	12/30/08	LBD	0.003			
Benzene	mg/kg	ND	12/30/08	LBD	0.006			
Bromobenzene	mg/kg	ND	12/30/08	LBD	0.006			
Bromochloromethane	mg/kg	ND	12/30/08	LBD	0.006			
Bromodichloromethane	mg/kg	ND	12/30/08	LBD	0.006			
Bromoform	mg/kg	ND	12/30/08	LBD	0.006			
Bromomethane	mg/kg	ND	12/30/08	LBD	0.027			
2-Butanone (MEK)	mg/kg	ND	12/30/08	LBD	0.11			
tert-Butyl Alcohol	mg/kg	ND	12/30/08	LBD	0.11			
n-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.006			
sec-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.006			
tert-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.006			
tert-Butylethyl Ether	mg/kg	ND	12/30/08	LBD	0.003			
Carbon Disulfide	mg/kg	ND	12/30/08	LBD	0.016			
Carbon Tetrachloride	mg/kg	ND	12/30/08	LBD	0.006			
Chlorobenzene	mg/kg	ND	12/30/08	LBD	0.006			
Chlorodibromomethane	mg/kg	ND	12/30/08	LBD	0.003			
Chloroethane	mg/kg	ND	12/30/08	LBD	0.054			
Chloroform	mg/kg	ND	12/30/08	LBD	0.011			
Chloromethane	mg/kg	ND	12/30/08	LBD	0.027			
2-Chlorotoluene	mg/kg	ND	12/30/08	LBD	0.006			
4-Chlorotoluene	mg/kg	ND	12/30/08	LBD	0.006			
1,2-Dibromo-3-Chloropropane	mg/kg	ND	12/30/08	LBD	0.006			
1,2-Dibromoethane	mg/kg	ND	12/30/08	LBD	0.003			
Dibromomethane	mg/kg	ND	12/30/08	LBD	0.006			
1,2-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.006			
1,3-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.006			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 4 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-13

Not Specified

Sample Matrix: SOIL

	Units	Results	Date	Analyst	RL	SPEC Limit		P/ F
			Analyzed			Lo	Hi	
1,4-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.006			
trans-1,4-Dichloro-2-Butene	mg/kg	ND	12/30/08	LBD	0.011			
Dichlorodifluoromethane	mg/kg	ND	12/30/08	LBD	0.054			
1,1-Dichloroethane	mg/kg	ND	12/30/08	LBD	0.006			
1,2-Dichloroethane	mg/kg	ND	12/30/08	LBD	0.006			
1,1-Dichloroethylene	mg/kg	ND	12/30/08	LBD	0.011			
cis-1,2-Dichloroethylene	mg/kg	0.009	12/30/08	LBD	0.006			
trans-1,2-Dichloroethylene	mg/kg	ND	12/30/08	LBD	0.006			
1,2-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.006			
1,3-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.003			
2,2-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.006			
1,1-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.006			
cis-1,3-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.003			
trans-1,3-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.003			
Diethyl Ether	mg/kg	ND	12/30/08	LBD	0.054			
Diisopropyl Ether	mg/kg	ND	12/30/08	LBD	0.054			
1,4-Dioxane	mg/kg	ND	12/30/08	LBD	0.27			
Ethyl Benzene	mg/kg	ND	12/30/08	LBD	0.006			
Hexachlorobutadiene	mg/kg	ND	12/30/08	LBD	0.006			
2-Hexanone	mg/kg	ND	12/30/08	LBD	0.054			
Isopropylbenzene	mg/kg	ND	12/30/08	LBD	0.006			
p-Isopropyltoluene	mg/kg	ND	12/30/08	LBD	0.006			
MTBE	mg/kg	ND	12/30/08	LBD	0.011			
Methylene Chloride	mg/kg	ND	12/30/08	LBD	0.054			
MIBK	mg/kg	ND	12/30/08	LBD	0.054			
Naphthalene	mg/kg	ND	12/30/08	LBD	0.011			
n-Propylbenzene	mg/kg	ND	12/30/08	LBD	0.006			
Styrene	mg/kg	ND	12/30/08	LBD	0.006			
1,1,1,2-Tetrachloroethane	mg/kg	ND	12/30/08	LBD	0.006			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 5 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-13

Not Specified

Sample Matrix: SOIL

	Units	Results	Date	Analyst	RL	SPEC	Limit	P/F
			Analyzed			Lo	Hi	
1,1,2,2-Tetrachloroethane	mg/kg	ND	12/30/08	LBD	0.003			
Tetrachloroethylene	mg/kg	ND	12/30/08	LBD	0.006			
Tetrahydrofuran	mg/kg	ND	12/30/08	LBD	0.027			
Toluene	mg/kg	0.010	12/30/08	LBD	0.006			
1,2,3-Trichlorobenzene	mg/kg	ND	12/30/08	LBD	0.006			
1,2,4-Trichlorobenzene	mg/kg	ND	12/30/08	LBD	0.006			
1,1,1-Trichloroethane	mg/kg	ND	12/30/08	LBD	0.006			
1,1,2-Trichloroethane	mg/kg	ND	12/30/08	LBD	0.006			
Trichloroethylene	mg/kg	0.013	12/30/08	LBD	0.006			
Trichlorofluoromethane	mg/kg	ND	12/30/08	LBD	0.027			
1,2,3-Trichloropropane	mg/kg	ND	12/30/08	LBD	0.006			
1,1,2-Trichloro-1,2,2-Trifluoroethane	mg/kg	ND	12/30/08	LBD	0.027			
1,2,4-Trimethylbenzene	mg/kg	ND	12/30/08	LBD	0.006			
1,3,5-Trimethylbenzene	mg/kg	ND	12/30/08	LBD	0.006			
Vinyl Chloride	mg/kg	ND	12/30/08	LBD	0.027			
m + p Xylene	mg/kg	ND	12/30/08	LBD	0.011			
o-Xylene	mg/kg	ND	12/30/08	LBD	0.006			

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS. REPORTED RESULTS AND REPORTING LIMITS FOR 1,4-DIOXANE AND TERT-BUTYLALCOHOL ARE ESTIMATED SINCE RESPONSE FACTORS FOR THESE COMPOUNDS ARE BELOW METHOD SPECIFICATIONS.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 6 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-13 DUP

Not Specified

Sample Matrix: SOIL

	Units	Results	Date	Analyst	RL	SPEC		P/ F
			Analyzed			Lo	Hi	
Acetone	mg/kg	ND	12/30/08	LBD	0.18			
Acrylonitrile	mg/kg	ND	12/30/08	LBD	0.011			
tert-Amylmethyl Ether	mg/kg	ND	12/30/08	LBD	0.002			
Benzene	mg/kg	ND	12/30/08	LBD	0.004			
Bromobenzene	mg/kg	ND	12/30/08	LBD	0.004			
Bromochloromethane	mg/kg	ND	12/30/08	LBD	0.004			
Bromodichloromethane	mg/kg	ND	12/30/08	LBD	0.004			
Bromoform	mg/kg	ND	12/30/08	LBD	0.004			
Bromomethane	mg/kg	ND	12/30/08	LBD	0.018			
2-Butanone (MEK)	mg/kg	ND	12/30/08	LBD	0.069			
tert-Butyl Alcohol	mg/kg	ND	12/30/08	LBD	0.069			
n-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.004			
sec-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.004			
tert-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.004			
tert-Butylethyl Ether	mg/kg	ND	12/30/08	LBD	0.002			
Carbon Disulfide	mg/kg	ND	12/30/08	LBD	0.011			
Carbon Tetrachloride	mg/kg	ND	12/30/08	LBD	0.004			
Chlorobenzene	mg/kg	ND	12/30/08	LBD	0.004			
Chlorodibromomethane	mg/kg	ND	12/30/08	LBD	0.002			
Chloroethane	mg/kg	ND	12/30/08	LBD	0.035			
Chloroform	mg/kg	ND	12/30/08	LBD	0.007			
Chloromethane	mg/kg	ND	12/30/08	LBD	0.018			
2-Chlorotoluene	mg/kg	ND	12/30/08	LBD	0.004			
4-Chlorotoluene	mg/kg	ND	12/30/08	LBD	0.004			
1,2-Dibromo-3-Chloropropane	mg/kg	ND	12/30/08	LBD	0.004			
1,2-Dibromoethane	mg/kg	ND	12/30/08	LBD	0.002			
Dibromomethane	mg/kg	ND	12/30/08	LBD	0.004			
1,2-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.004			
1,3-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.004			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 7 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-13 DUP

Not Specified

Sample Matrix: SOIL

	Units	Results	Date	Analyst	RL	SPEC Limit	P/F
			Analyzed			Lo Hi	
1,4-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.004		
trans-1,4-Dichloro-2-Butene	mg/kg	ND	12/30/08	LBD	0.007		
Dichlorodifluoromethane	mg/kg	ND	12/30/08	LBD	0.035		
1,1-Dichloroethane	mg/kg	ND	12/30/08	LBD	0.004		
1,2-Dichloroethane	mg/kg	ND	12/30/08	LBD	0.004		
1,1-Dichloroethylene	mg/kg	ND	12/30/08	LBD	0.007		
cis-1,2-Dichloroethylene	mg/kg	0.009	12/30/08	LBD	0.004		
trans-1,2-Dichloroethylene	mg/kg	ND	12/30/08	LBD	0.004		
1,2-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.004		
1,3-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.002		
2,2-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.004		
1,1-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.004		
cis-1,3-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.002		
trans-1,3-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.002		
Diethyl Ether	mg/kg	ND	12/30/08	LBD	0.035		
Diisopropyl Ether	mg/kg	ND	12/30/08	LBD	0.035		
1,4-Dioxane	mg/kg	ND	12/30/08	LBD	0.18		
Ethyl Benzene	mg/kg	ND	12/30/08	LBD	0.004		
Hexachlorobutadiene	mg/kg	ND	12/30/08	LBD	0.004		
2-Hexanone	mg/kg	ND	12/30/08	LBD	0.035		
Isopropylbenzene	mg/kg	ND	12/30/08	LBD	0.004		
p-Isopropyltoluene	mg/kg	ND	12/30/08	LBD	0.004		
MTBE	mg/kg	ND	12/30/08	LBD	0.007		
Methylene Chloride	mg/kg	ND	12/30/08	LBD	0.035		
MIBK	mg/kg	ND	12/30/08	LBD	0.035		
Naphthalene	mg/kg	ND	12/30/08	LBD	0.007		
n-Propylbenzene	mg/kg	ND	12/30/08	LBD	0.004		
Styrene	mg/kg	ND	12/30/08	LBD	0.004		
1,1,1,2-Tetrachloroethane	mg/kg	ND	12/30/08	LBD	0.004		

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 8 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-13 DUP

Not Specified

Sample Matrix: SOIL

	Units	Results	Date	Analyst	RL	SPEC	Limit	P/F
			Analyzed			Lo	Hi	
1,1,2,2-Tetrachloroethane	mg/kg	ND	12/30/08	LBD	0.002			
Tetrachloroethylene	mg/kg	ND	12/30/08	LBD	0.004			
Tetrahydrofuran	mg/kg	ND	12/30/08	LBD	0.018			
Toluene	mg/kg	0.006	12/30/08	LBD	0.004			
1,2,3-Trichlorobenzene	mg/kg	ND	12/30/08	LBD	0.004			
1,2,4-Trichlorobenzene	mg/kg	ND	12/30/08	LBD	0.004			
1,1,1-Trichloroethane	mg/kg	ND	12/30/08	LBD	0.004			
1,1,2-Trichloroethane	mg/kg	ND	12/30/08	LBD	0.004			
Trichloroethylene	mg/kg	0.004	12/30/08	LBD	0.004			
Trichlorofluoromethane	mg/kg	ND	12/30/08	LBD	0.018			
1,2,3-Trichloropropane	mg/kg	ND	12/30/08	LBD	0.004			
1,1,2-Trichloro-1,2,2-Trifluoroethane	mg/kg	ND	12/30/08	LBD	0.018			
1,2,4-Trimethylbenzene	mg/kg	ND	12/30/08	LBD	0.004			
1,3,5-Trimethylbenzene	mg/kg	ND	12/30/08	LBD	0.004			
Vinyl Chloride	mg/kg	ND	12/30/08	LBD	0.018			
m + p Xylene	mg/kg	ND	12/30/08	LBD	0.007			
o-Xylene	mg/kg	ND	12/30/08	LBD	0.004			

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS. REPORTED RESULTS AND REPORTING LIMITS FOR 1,4-DIOXANE AND TERT-BUTYLALCOHOL ARE ESTIMATED SINCE RESPONSE FACTORS FOR THESE COMPOUNDS ARE BELOW METHOD SPECIFICATIONS.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009 860 N. MAIN STREET EXTENSION Page 9 of 27

Purchase Order No.: WALLINGFORD, CT 06492

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-33

Sample ID: 08B50796 ‡Sampled: 12/22/2008

Not Specified

SOIL Sample Matrix:

	Units	Results	Date Analyzed	Analyst	RL	SPEC Lo	Limit Hi	P/ F
Acetone	mg/kg	ND	12/30/08	LBD	0.097			
Acrylonitrile	mg/kg	ND	12/30/08	LBD	0.006			
tert-Amylmethyl Ether	mg/kg	ND	12/30/08	LBD	0.001			
Benzene	mg/kg	ND	12/30/08	LBD	0.002			
Bromobenzene	mg/kg	ND	12/30/08	LBD	0.002			
Bromochloromethane	mg/kg	ND	12/30/08	LBD	0.002			
Bromodichloromethane	mg/kg	ND	12/30/08	LBD	0.002			
Bromoform	mg/kg	ND	12/30/08	LBD	0.002			
Bromomethane	mg/kg	ND	12/30/08	LBD	0.010			
2-Butanone (MEK)	mg/kg	ND	12/30/08	LBD	0.039			
tert-Butyl Alcohol	mg/kg	ND	12/30/08	LBD	0.039			
n-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.002			
sec-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.002			
tert-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.002			
tert-Butylethyl Ether	mg/kg	ND	12/30/08	LBD	0.001			
Carbon Disulfide	mg/kg	ND	12/30/08	LBD	0.006			
Carbon Tetrachloride	mg/kg	ND	12/30/08	LBD	0.002			
Chlorobenzene	mg/kg	ND	12/30/08	LBD	0.002			
Chlorodibromomethane	mg/kg	ND	12/30/08	LBD	0.001			
Chloroethane	mg/kg	ND	12/30/08	LBD	0.020			
Chloroform	mg/kg	ND	12/30/08	LBD	0.004			
Chloromethane	mg/kg	ND	12/30/08	LBD	0.010			
2-Chlorotoluene	mg/kg	ND	12/30/08	LBD	0.002			
4-Chlorotoluene	mg/kg	ND	12/30/08	LBD	0.002			
1,2-Dibromo-3-Chloropropane	mg/kg	ND	12/30/08	LBD	0.002			
1,2-Dibromoethane	mg/kg	ND	12/30/08	LBD	0.001			
Dibromomethane	mg/kg	ND	12/30/08	LBD	0.002			
1,2-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.002			
1,3-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.002			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 10 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-33

Not Specified

Sample Matrix: SOIL

	Units	Results	Date	Analyst	RL	SPEC		P/ F
			Analyzed			Lo	Hi	
1,4-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.002			
trans-1,4-Dichloro-2-Butene	mg/kg	ND	12/30/08	LBD	0.004			
Dichlorodifluoromethane	mg/kg	ND	12/30/08	LBD	0.020			
1,1-Dichloroethane	mg/kg	ND	12/30/08	LBD	0.002			
1,2-Dichloroethane	mg/kg	ND	12/30/08	LBD	0.002			
1,1-Dichloroethylene	mg/kg	ND	12/30/08	LBD	0.004			
cis-1,2-Dichloroethylene	mg/kg	ND	12/30/08	LBD	0.002			
trans-1,2-Dichloroethylene	mg/kg	ND	12/30/08	LBD	0.002			
1,2-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.002			
1,3-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.001			
2,2-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.002			
1,1-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.002			
cis-1,3-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.001			
trans-1,3-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.001			
Diethyl Ether	mg/kg	ND	12/30/08	LBD	0.020			
Diisopropyl Ether	mg/kg	ND	12/30/08	LBD	0.020			
1,4-Dioxane	mg/kg	ND	12/30/08	LBD	0.097			
Ethyl Benzene	mg/kg	ND	12/30/08	LBD	0.002			
Hexachlorobutadiene	mg/kg	ND	12/30/08	LBD	0.002			
2-Hexanone	mg/kg	ND	12/30/08	LBD	0.020			
Isopropylbenzene	mg/kg	ND	12/30/08	LBD	0.002			
p-Isopropyltoluene	mg/kg	ND	12/30/08	LBD	0.002			
MTBE	mg/kg	ND	12/30/08	LBD	0.004			
Methylene Chloride	mg/kg	ND	12/30/08	LBD	0.020			
МІВК	mg/kg	ND	12/30/08	LBD	0.020			
Naphthalene	mg/kg	ND	12/30/08	LBD	0.004			
n-Propylbenzene	mg/kg	ND	12/30/08	LBD	0.002			
Styrene	mg/kg	ND	12/30/08	LBD	0.002			
1,1,1,2-Tetrachloroethane	mg/kg	ND	12/30/08	LBD	0.002			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 11 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-33

Not Specified

Sample Matrix: SOIL

	Units	Results	Date	Analyst	RL	SPEC	Limit	P/F
			Analyzed			Lo	Hi	
1,1,2,2-Tetrachloroethane	mg/kg	ND	12/30/08	LBD	0.001			
Tetrachloroethylene	mg/kg	ND	12/30/08	LBD	0.002			
Tetrahydrofuran	mg/kg	ND	12/30/08	LBD	0.010			
Toluene	mg/kg	ND	12/30/08	LBD	0.002			
1,2,3-Trichlorobenzene	mg/kg	ND	12/30/08	LBD	0.002			
1,2,4-Trichlorobenzene	mg/kg	ND	12/30/08	LBD	0.002			
1,1,1-Trichloroethane	mg/kg	ND	12/30/08	LBD	0.002			
1,1,2-Trichloroethane	mg/kg	ND	12/30/08	LBD	0.002			
Trichloroethylene	mg/kg	ND	12/30/08	LBD	0.002			
Trichlorofluoromethane	mg/kg	ND	12/30/08	LBD	0.010			
1,2,3-Trichloropropane	mg/kg	ND	12/30/08	LBD	0.002			
1,1,2-Trichloro-1,2,2-Trifluoroethane	mg/kg	ND	12/30/08	LBD	0.010			
1,2,4-Trimethylbenzene	mg/kg	ND	12/30/08	LBD	0.002			
1,3,5-Trimethylbenzene	mg/kg	ND	12/30/08	LBD	0.002			
Vinyl Chloride	mg/kg	ND	12/30/08	LBD	0.010			
m + p Xylene	mg/kg	ND	12/30/08	LBD	0.004			
o-Xylene	mg/kg	ND	12/30/08	LBD	0.002			

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS. REPORTED RESULTS AND REPORTING LIMITS FOR 1,4-DIOXANE AND TERT-BUTYLALCOHOL ARE ESTIMATED SINCE RESPONSE FACTORS FOR THESE COMPOUNDS ARE BELOW METHOD SPECIFICATIONS.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 12 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-12

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

Arsenic mg/kg dry wt 7.74 12/29/08 OP 2.94

Field Sample #: SB-14

Sample ID: 08B50777 ‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

Units Results Date RL SPEC Limit P/F Analyst Analyzed Lo Hi OP 3.02 Arsenic mg/kg dry wt 8.91 12/29/08

Field Sample #: SB-15

Not Specified

Sample Matrix: SOIL

Units Results Date RLSPEC Limit P/F Analyst Analyzed Lo Hi 12/29/08 2.85 Arsenic ND OP mg/kg dry wt

Field Sample #: SB-17

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst RL Analyst RL Analyzed
 SPEC Limit P/ F Lo Hi

 Arsenic
 mg/kg dry wt 5.10
 12/29/08 OP 2.72

Field Sample #: SB-18

Sample ID: 08B50781 ‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

Units Results Date SPEC Limit P/F Analyst RLAnalyzed Lo Hi Arsenic 6.29 12/29/08 OP 2.70 mg/kg dry wt

RL = Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

ND = Not Detected at or above the Reporting Limit

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 13 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-19

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F

Analyzed Lo Hi

Arsenic mg/kg dry wt 6.17 12/29/08 OP 2.64

Field Sample #: SB-20

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

Arsenic mg/kg dry wt 5.31 12/29/08 OP 2.78

Field Sample #: SB-21

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F Analyzed Lo Hi

Arsenic mg/kg dry wt 8.92 12/29/08 OP 2.83

Field Sample #: SB-22

Sample ID: 08B50785 ‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F Analyzed Lo Hi

Arsenic mg/kg dry wt 6.95 12/29/08 OP 2.65

Field Sample #: SB-23

Sample ID: 08B50786 ‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

Units Results Date SPEC Limit P/F Analyst RLAnalyzed Lo Hi Arsenic 7.83 12/29/08 OP 2.93 mg/kg dry wt

RL = Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to

ND = Not Detected at or above the Reporting Limit determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 14 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-24

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F Analyzed Lo Hi

Arsenic mg/kg dry wt 6.31 12/29/08 OP 2.82

Field Sample #: SB-25

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

Arsenic mg/kg dry wt 6.14 12/29/08 OP 2.65

Field Sample #: SB-26

Not Specified

Sample Matrix: SOIL

Units Results Date RLSPEC Limit P/F Analyst Analyzed Lo Hi 2.93 Arsenic 7.95 12/29/08 OP mg/kg dry wt

Field Sample #: SB-27

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst RL Analyst RL SPEC Limit P/ F Analyzed
 SPEC Limit P/ F Lo Hi

 Arsenic
 mg/kg dry wt 7.32
 12/29/08 OP 2.89

Field Sample #: SB-28

Not Specified

Sample Matrix: SOIL

Units Results Date RLSPEC Limit P/F Analyst Analyzed Lo Hi Arsenic 16.8 12/29/08 OP 2.72 mg/kg dry wt

RL = Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

ND = Not Detected at or above the Reporting Limit

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 15 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-29

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

Arsenic mg/kg dry wt 8.57 12/29/08 OP 2.69

Field Sample #: SB-30

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F Analyzed Lo Hi

Arsenic mg/kg dry wt 6.21 12/29/08 OP 2.76

Field Sample #: SB-31

Not Specified

Sample Matrix: SOIL

Units Results Date RLSPEC Limit P/F Analyst Analyzed Lo Hi 6.22 2.82 Arsenic 12/29/08 OP mg/kg dry wt

Field Sample #: SB-32

Sample ID: 08B50795 ‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst Analyst RL Analyst RL Analyzed
 SPEC Limit P/ F Lo Hi

 Arsenic
 mg/kg dry wt 6.50
 12/29/08 OP 2.99

Field Sample #: SB-34 0-2FT

Sample ID: 08B50797 ‡Sampled: 12/23/2008

Not Specified

Sample Matrix: SOIL

Units Results Date SPEC Limit P/F Analyst RLAnalyzed Lo Hi Arsenic 7.01 12/29/08 OP 2.82 mg/kg dry wt

RL = Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to

ND = Not Detected at or above the Reporting Limit determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 16 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Analytical Method: SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 17 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-16

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F

Analyzed Lo Hi

Extractable TPH (ETPH) mg/kg dry weight 450 12/30/08 JB 230

Field Sample #: SB-30

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F

Analyzed Lo Hi

Extractable TPH (ETPH) mg/kg dry weight 230 12/30/08 JB 120

Field Sample #: SB-32

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F Analyzed Lo Hi

Extractable TPH (ETPH) mg/kg dry weight 850 12/30/08 JB 240

Analytical Method:

Extractable TPH (CT ETPH)

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE AND ANALYZED BY GAS

CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION (GC/FID).

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

NM = Not Measured

* = See end of report for comments and notes applying to this sample

= See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 18 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-16

Not Specified

Sample Matrix: SOIL

	Units	Results	Date	Analyst	RL	SPEC I	imit	P/F
			Analyzed			Lo	Hi	
Antimony	mg/kg dry wt	ND	12/29/08	OP	4.46			
Arsenic	mg/kg dry wt	9.89	12/29/08	OP	2.79			
Beryllium	mg/kg dry wt	0.66	12/29/08	OP	0.28			
Cadmium	mg/kg dry wt	5.38	12/29/08	OP	0.28			
Chromium	mg/kg dry wt	233	12/29/08	OP	0.56			
Copper	mg/kg dry wt	48.0	12/29/08	OP	0.56			
Lead	mg/kg dry wt	94.2	12/29/08	OP	0.84			
Mercury	mg/kg dry wt	0.070	12/29/08	KM	0.012			
Nickel	mg/kg dry wt	64.3	12/29/08	OP	0.56			
Selenium	mg/kg dry wt	ND	12/29/08	OP	5.58			
Silver	mg/kg dry wt	ND	12/29/08	OP	0.56			
Thallium	mg/kg dry wt	ND	12/29/08	OP	3.35			
Zinc	mg/kg dry wt	126	12/29/08	OP	1.12			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 19 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Analytical Method: Antimony

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Arsenic

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Beryllium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Cadmium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Chromium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Copper

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Lead SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Mercury

SW846 3050/7471

SAMPLES ARE DIGESTED WITH ACIDS AND THEN ANALYZED BY COLD VAPOR (FLAMELESS) ATOMIC ABSORPTION SPECTROPHOTOMETRY

Analytical Method: Nickel

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Selenium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 20 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Analytical Method: Silver

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Thallium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Zinc SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 21 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-30

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F Analyzed Lo Hi

Lead mg/kg dry wt 71.1 12/29/08 OP 0.83

Field Sample #: SB-32

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/F Analyzed Lo Hi 12/29/08 0.90 Lead mg/kg dry wt 887 OP

Analytical Method: SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009 860 N. MAIN STREET EXTENSION Page 22 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-12

08B50774 ‡Sampled: 12/22/2008 Sample ID:

Not Specified

SOIL Sample Matrix:

Units SPEC Limit P/F Results Date Analyst RL Analyzed Lo Ηi

% Solids, total 85.1 12/29/08 **TGT**

Field Sample #: SB-14

Sample ID: 08B50777 \$Sampled: 12/22/2008

Not Specified

SOIL Sample Matrix:

Units Results Date RL SPEC Limit P/F Analyst Analyzed Lo Hi

% 12/29/08 **TGT** Solids, total 82.8

Field Sample #: SB-15

Sample ID: 08B50778 **\$Sampled: 12/22/2008**

Not Specified

Sample Matrix: SOIL

Units Results Date RLSPEC Limit P/F Analyst Analyzed Lo Hi % 88.0 12/29/08 Solids, total **TGT**

Field Sample #: SB-16

Sample ID: \$Sampled: 12/22/2008 08B50779

Not Specified

Sample Matrix: SOIL

Units Results RL SPEC Limit P/F Date Analyst Analyzed Lo % Solids, total 89.7 12/29/08 **TGT**

Field Sample #: SB-17

08B50780 ‡Sampled: 12/22/2008 Sample ID:

Not Specified

SOIL Sample Matrix:

Units Results Date SPEC Limit P/F Analyst RL Analyzed Lo Ηi Solids, total % 92.1 12/29/08 **TGT**

SPEC LIMIT = a client specified recommended or RL = Reporting Limit ND = Not Detected at or above the Reporting Limit

regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

NM = Not Measured

* = See end of report for comments and notes applying to this sample

= See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 23 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-18

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

Solids, total % 92.6 12/29/08 TGT

Field Sample #: SB-19

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F Analyzed Lo Hi

Solids, total % 94.9 12/29/08 TGT

Field Sample #: SB-20

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst RL Analyst RL Analyst RL Analyzed
 SPEC Limit P/ F Lo Hi

 Solids, total
 %
 90.0
 12/29/08 TGT

Field Sample #: SB-21

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst
 RL SPEC Limit
 P/ F

 Analyzed
 Lo Hi

 Solids, total
 %
 88.6
 12/29/08
 TGT

Field Sample #: SB-22

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst RL Analyst RL SPEC Limit P/ F Analyzed
 SPEC Limit P/ F Lo Hi

 Solids, total
 %
 94.6
 12/29/08 TGT

RL = Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

NM = Not Measured

ND = Not Detected at or above the Reporting Limit

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009 860 N. MAIN STREET EXTENSION Page 24 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-23

08B50786 ‡Sampled: 12/22/2008 Sample ID:

Not Specified

Sample Matrix: SOIL

Units SPEC Limit P/F Results Date Analyst RL Analyzed Lo Ηi

% Solids, total 85.6 12/29/08 **TGT**

Field Sample #: SB-24

\$Sampled: 12/22/2008 Sample ID: 08B50787

Not Specified

SOIL Sample Matrix:

Units Results Date RL SPEC Limit P/F Analyst Analyzed Lo Hi

% 12/29/08 **TGT** Solids, total 88.88

Field Sample #: SB-25

Sample ID: 08B50788 **\$Sampled: 12/22/2008**

Not Specified

Sample Matrix: SOIL

Units Results Date RLSPEC Limit P/F Analyst Analyzed Lo Hi **TGT**

% 12/29/08 Solids, total 94.4

Field Sample #: SB-26

Sample ID: \$Sampled: 12/22/2008 08B50789

Not Specified

Sample Matrix: SOIL

Units Results RL SPEC Limit P/F Date Analyst Analyzed Lo % Solids, total 85.4 12/29/08 **TGT**

Field Sample #: SB-27

08B50790 ‡Sampled: 12/22/2008 Sample ID:

Not Specified

SOIL Sample Matrix:

Units Results Date SPEC Limit P/F Analyst RL Analyzed Lo Ηi Solids, total % 86.8 12/29/08 **TGT**

SPEC LIMIT = a client specified recommended or RL = Reporting Limit

regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

= See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 25 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-28

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

Solids, total % 92.2 12/29/08 TGT

Field Sample #: SB-29

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

Solids, total % 93.1 12/29/08 TGT

Field Sample #: SB-30

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst RL
 SPEC Limit P/ F Lo
 P/ F

 Analyzed
 Lo
 Hi

 Solids, total
 %
 90.9
 12/29/08
 TGT

Field Sample #: SB-31

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst RL Analyst RL Analyst RL Analyzed
 SPEC Limit P/F Lo Hi

 Solids, total
 %
 88.9
 12/29/08 TGT

Field Sample #: SB-32

Sample ID: 08B50795 ‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst RL Analyst RL Analyst RL Analyzed
 SPEC Limit P/ F Lo Hi

 Solids, total
 %
 83.7
 12/29/08 TGT

RL = Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

ND = Not Detected at or above the Reporting Limit

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 26 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-34 0-2FT

Sample ID: 08B50797 ‡Sampled: 12/23/2008

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst RL Analyst RL Analyst RL Analyzed
 SPEC Limit P/F Lo Hi

 Solids, total
 %
 88.9
 12/29/08
 TGT

Analytical Method:

SM 2540G

PERCENT OF SAMPLE REMAINING AFTER DRYING OVERNIGHT AT 103-105 DEGREES CENTIGRADE.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/2/2009
860 N. MAIN STREET EXTENSION Page 27 of 27

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22296

Date Received: 12/24/2008 Job Number: 60045450.04

The following notes were attached to the reported analysis:

Sample ID: * 08B50778 Analysis: PCB-1254

RESULT WAS CONFIRMED USING A DISSIMILAR COLUMN. RELATIVE PERCENT DIFFERENCE BETWEEN THE TWO RESULTS WAS >40%. THE HIGHER RESULT WAS REPORTED.

** END OF REPORT **

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/2/2009	Lims Bat # : LIMT-22296		Page 1 of	10
QC Batch Numbe					
Sample Id	Analysis	QC Analysis	Values	Units	Limits
)8B50777					
	PCB-1260	Sample Amount	<0.121	mg/kg dry wt	
		Matrix Spk Amt Added	0.241	mg/kg dry wt	
		MS Amt Measured	0.247	mg/kg dry wt	
		Matrix Spike % Rec.	102.500	%	40-140
		MSD Amount Added	0.241	mg/kg dry wt	
		MSD Amt Measured	0.254	mg/kg dry wt	
		MSD % Recovery	105.250	%	
		MSD Range	2.750	units	
		MS Duplicate RPD	2.647	%	0-50
	Decachlorobiphenyl	Surrogate Recovery	108.5	%	30-150
	Tetrachloro-m-Xylene	Surrogate Recovery	129.7	%	30-150
	PCB 1016	Sample Amount	<0.121	mg/kg dry wt	
		Matrix Spk Amt Added	0.241	mg/kg dry wt	
		MS Amt Measured	0.210	mg/kg dry wt	
		Matrix Spike % Rec.	87.249	%	40-140
		MSD Amount Added	0.241	mg/kg dry wt	
		MSD Amt Measured	0.185	mg/kg dry wt	
		MSD % Recovery	76.999	%	
		MSD Range	10.249	units	
		MS Duplicate RPD	12.480	%	0-50
)8B50778					
	Decachlorobiphenyl	Surrogate Recovery	55.5	%	30-150
	Tetrachloro-m-Xylene	Surrogate Recovery	89.5	%	30-150
3LANK-128145					
	PCB-1232	Blank	<0.100	mg/kg dry wt	
	PCB-1242	Blank	<0.100	mg/kg dry wt	
	PCB-1254	Blank	<0.100	mg/kg dry wt	
	PCB-1260	Blank	<0.100	mg/kg dry wt	
	PCB-1248	Blank	<0.100	mg/kg dry wt	
	PCB-1221	Blank	<0.100	mg/kg dry wt	
	PCB 1016	Blank	<0.100	mg/kg dry wt	
	PCB 1262	Blank	<0.100	mg/kg dry wt	
	PCB 1268	Blank	<0.100	mg/kg dry wt	
FBLANK-90162					
	PCB-1260	Lab Fort Blank Amt.	0.200	mg/kg dry wt	
		Lab Fort Blk. Found	0.209	mg/kg dry wt	
		Lab Fort Blk. % Rec.	104.750	%	40-140
		Dup Lab Fort Bl Amt.	0.200	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.171	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	85.500	%	
		Lab Fort Blank Range	19.250	units	
		Lab Fort Bl. Av. Rec	95.125	%	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/2/2009	Lims Bat #: LIMT-22296	Page 2 of 16					
QC Batch Numbe	QC Batch Number: GC/ECD-12053							
Sample Id	Analysis	QC Analysis	Values	Units	Limits			
LFBLANK-90162								
	PCB 1016	Lab Fort Blank Amt.	0.200	mg/kg dry wt				
		Lab Fort Blk. Found	0.184	mg/kg dry wt				
		Lab Fort Blk. % Rec.	92.250	%	40-140			
		Dup Lab Fort BI Amt.	0.200	mg/kg dry wt				
		Dup Lab Fort Bl. Fnd	0.198	mg/kg dry wt				
		Dup Lab Fort BI %Rec	99.250	%				
		Lab Fort Blank Range	7.000	units				
		Lab Fort Bl. Av. Rec	95.750	%				
		LFB Duplicate RPD	7.310	%	0-30			



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/2/2009	Lims Bat #: LIMT-22296	Page 3 of 16		
QC Batch Number:	GC/FID-22891				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50779					
	Terphenyl	Surrogate Recovery	N.M.	%	50-150
08B50793					
	Terphenyl	Surrogate Recovery	74.2	%	50-150
08B50795					
	Terphenyl	Surrogate Recovery	N.M.	%	50-150
BLANK-128204					
	Extractable TPH (ETPH)	Blank	<10.0	mg/kg dry weig	
LFBLANK-90226					
	Extractable TPH (ETPH)	Lab Fort Blank Amt.	33.3	mg/kg dry weig	
		Lab Fort Blk. Found	23.0	mg/kg dry weig	
		Lab Fort Blk. % Rec.	69.1	%	60-120
		Dup Lab Fort Bl Amt.	33.3	mg/kg dry weig	
		Dup Lab Fort Bl. Fnd	21.7	mg/kg dry weig	
		Dup Lab Fort BI %Rec	65.2	%	
		Lab Fort Blank Range	3.9	units	
		Lab Fort Bl. Av. Rec	67.1	%	
		LFB Duplicate RPD	5.8	%	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/2/2009 Lims B	at #: LIMT-22296		Page 4	of 16
QC Batch Numbe	r: GCMS/VOL-21247				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50775					
	1,2-Dichloroethane-d4	Surrogate Recovery	119.600	%	70-130
	Toluene-d8	Surrogate Recovery	99.840	%	70-130
	Bromofluorobenzene	Surrogate Recovery	103.160	%	70-130
08B50776					
	1,2-Dichloroethane-d4	Surrogate Recovery	119.320	%	70-130
	Toluene-d8	Surrogate Recovery	99.280	%	70-130
	Bromofluorobenzene	Surrogate Recovery	103.400	%	70-130
08B50796					
	1,2-Dichloroethane-d4	Surrogate Recovery	119.600	%	70-130
	Toluene-d8	Surrogate Recovery	99.960	%	70-130
	Bromofluorobenzene	Surrogate Recovery	103.720	%	70-130
BLANK-128197					
	Acetone	Blank	<0.10	mg/kg	
	Benzene	Blank	<0.002	mg/kg	
	Carbon Tetrachloride	Blank	<0.002	mg/kg	
	Chloroform	Blank	< 0.004	mg/kg	
	1,2-Dichloroethane	Blank	< 0.002	mg/kg	
	1,4-Dichlorobenzene	Blank	< 0.002	mg/kg	
	Ethyl Benzene	Blank	< 0.002	mg/kg	
	2-Butanone (MEK)	Blank	< 0.040	mg/kg	
	MIBK	Blank	< 0.020	mg/kg	
	Naphthalene	Blank	< 0.004	mg/kg	
	Styrene	Blank	< 0.002	mg/kg	
	Tetrachloroethylene	Blank	< 0.002	mg/kg	
	Toluene	Blank	< 0.002	mg/kg	
	1,1,1-Trichloroethane	Blank	< 0.002	mg/kg	
	Trichloroethylene	Blank	< 0.002	mg/kg	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.010	mg/kg	
	Trichlorofluoromethane	Blank	<0.010	mg/kg	
	o-Xylene	Blank	<0.002	mg/kg	
	m + p Xylene	Blank	<0.004	mg/kg	
	1,2-Dichlorobenzene	Blank	<0.002	mg/kg	
	1,3-Dichlorobenzene	Blank	<0.002	mg/kg	
	1,1-Dichloroethane	Blank	<0.002	mg/kg	
	1,1-Dichloroethylene	Blank	<0.004	mg/kg	
	1,4-Dioxane	Blank	<0.10	mg/kg	
	MTBE	Blank	<0.004	mg/kg	
	trans-1,2-Dichloroethylene	Blank	<0.002	mg/kg	
	Vinyl Chloride	Blank	<0.010	mg/kg	
	Methylene Chloride	Blank	<0.020	mg/kg	
	Chlorobenzene	Blank	<0.002	mg/kg	
	Chloromethane	Blank	<0.010	mg/kg	
	Bromomethane	Blank	<0.010	mg/kg	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/2/2009	Lims Bat #: LIMT-22296		Page !	5 of 16
QC Batch Number	: GCMS/VOL-21247				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-128197					
	Chloroethane	Blank	<0.020	mg/kg	
	cis-1,3-Dichloropropene	Blank	<0.001	mg/kg	
	trans-1,3-Dichloropropene	Blank	<0.001	mg/kg	
	Chlorodibromomethane	Blank	<0.001	mg/kg	
	1,1,2-Trichloroethane	Blank	<0.002	mg/kg	
	Bromoform	Blank	<0.002	mg/kg	
	1,1,2,2-Tetrachloroethane	Blank	<0.001	mg/kg	
	2-Chlorotoluene	Blank	<0.002	mg/kg	
	Hexachlorobutadiene	Blank	<0.002	mg/kg	
	Isopropylbenzene	Blank	<0.002	mg/kg	
	p-Isopropyltoluene	Blank	<0.002	mg/kg	
	n-Propylbenzene	Blank	<0.002	mg/kg	
	sec-Butylbenzene	Blank	<0.002	mg/kg	
	tert-Butylbenzene	Blank	<0.002	mg/kg	
	1,2,3-Trichlorobenzene	Blank	<0.002	mg/kg	
	1,2,4-Trichlorobenzene	Blank	<0.002	mg/kg	
	1,2,4-Trimethylbenzene	Blank	<0.002	mg/kg	
	1,3,5-Trimethylbenzene	Blank	<0.002	mg/kg	
	Dibromomethane	Blank	<0.002	mg/kg	
	cis-1,2-Dichloroethylene	Blank	<0.002	mg/kg	
	4-Chlorotoluene	Blank	<0.002	mg/kg	
	1,1-Dichloropropene	Blank	<0.002	mg/kg	
	1,2-Dichloropropane	Blank	<0.002	mg/kg	
	1,3-Dichloropropane	Blank	<0.001	mg/kg	
	2,2-Dichloropropane	Blank	<0.002	mg/kg	
	1,1,1,2-Tetrachloroethane	Blank	<0.002	mg/kg	
	1,2,3-Trichloropropane	Blank	<0.002	mg/kg	
	n-Butylbenzene	Blank	<0.002	mg/kg	
	Dichlorodifluoromethane	Blank	<0.020	mg/kg	
	Bromochloromethane	Blank	<0.002	mg/kg	
	Bromobenzene	Blank	<0.002	mg/kg	
	Acrylonitrile	Blank	<0.006	mg/kg	
	Carbon Disulfide	Blank	<0.006	mg/kg	
	2-Hexanone	Blank	<0.020	mg/kg	
	trans-1,4-Dichloro-2-Butene	Blank	<0.004	mg/kg	
	Diethyl Ether	Blank	<0.020	mg/kg	
	Bromodichloromethane	Blank	<0.002	mg/kg	
	1,2-Dibromo-3-Chloropropane	Blank	<0.002	mg/kg	
	1,2-Dibromoethane	Blank	<0.001	mg/kg	
	Tetrahydrofuran	Blank	<0.010	mg/kg	
	tert-Butyl Alcohol	Blank	<0.040	mg/kg	
	Diisopropyl Ether	Blank	<0.020	mg/kg	
	tert-Butylethyl Ether	Blank	<0.001	mg/kg	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/2/2009	Lims Bat #: LIMT-22296	Page 6 of 16		of 16
QC Batch Number:	GCMS/VOL-21247				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-128197					
	tert-Amylmethyl Ether	Blank	<0.001	mg/kg	
LFBLANK-90219					
	Acetone	Lab Fort Blank Amt.	0.200	mg/kg	
		Lab Fort Blk. Found	0.164	mg/kg	
		Lab Fort Blk. % Rec.	82.420	%	70-160
	Benzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	79.300	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	77.300	%	70-130
	Chloroform	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	76.000	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	84.700	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	78.100	%	70-130
	Ethyl Benzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	84.300	%	70-130
	2-Butanone (MEK)	Lab Fort Blank Amt.	0.200	mg/kg	
		Lab Fort Blk. Found	0.153	mg/kg	
		Lab Fort Blk. % Rec.	76.640	%	70-160
	MIBK	Lab Fort Blank Amt.	0.200	mg/kg	
		Lab Fort Blk. Found	0.160	mg/kg	
		Lab Fort Blk. % Rec.	80.300	%	70-160
	Naphthalene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	82.800	%	40-130
	Styrene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	82.700	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	84.400	%	70-160
	Toluene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	78.900	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/2/2009 Lims B	at #: LIMT-22296		Page 7	of 16
QC Batch Numbe	r: GCMS/VOL-21247				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
FBLANK-90219					
	1,1,1-Trichloroethane	Lab Fort Blk. % Rec.	82.000	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	81.400	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.017	mg/kg	
		Lab Fort Blk. % Rec.	86.500	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	84.700	%	70-130
	o-Xylene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	80.500	%	70-130
	m + p Xylene	Lab Fort Blank Amt.	0.040	mg/kg	
		Lab Fort Blk. Found	0.033	mg/kg	
		Lab Fort Blk. % Rec.	83.700	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	81.300	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	81.100	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	76.200	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	75.200	%	70-130
	1,4-Dioxane	Lab Fort Blank Amt.	0.200	mg/kg	
		Lab Fort Blk. Found	0.127	mg/kg	
		Lab Fort Blk. % Rec.	63.620	%	40-160
	MTBE	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	82.500	%	70-130
	trans-1,2-Dichloroethylene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	79.600	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.013	mg/kg	
		Lab Fort Blk. % Rec.	68.900	%	40-130
	Methylene Chloride	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.017	mg/kg	
		Lab Fort Blk. % Rec.	86.700	%	40-160



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/2/2009	Lims Bat #: LIMT-22296		Page 8	3 of 16
QC Batch Number	r: GCMS/VOL-21247				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
FBLANK-90219					
	Chlorobenzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	82.100	%	70-130
	Chloromethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.013	mg/kg	
		Lab Fort Blk. % Rec.	65.000	%	40-130
	Bromomethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.012	mg/kg	
		Lab Fort Blk. % Rec.	63.300	%	40-130
	Chloroethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.014	mg/kg	
		Lab Fort Blk. % Rec.	70.800	%	40-160
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.014	mg/kg	
		Lab Fort Blk. % Rec.	73.600	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	76.200	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	77.400	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	75.700	%	70-130
	Bromoform	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.017	mg/kg	
		Lab Fort Blk. % Rec.	86.800	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	81.400	%	70-130
	2-Chlorotoluene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	84.300	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.017	mg/kg	
		Lab Fort Blk. % Rec.	85.800	%	70-130
	Isopropylbenzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.018	mg/kg	
		Lab Fort Blk. % Rec.	94.500	%	70-130
	p-Isopropyltoluene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.017	mg/kg	
		Lab Fort Blk. % Rec.	86.600	%	70-130
	n-Propylbenzene	Lab Fort Blank Amt.	0.020	mg/kg	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/2/2009	Lims Bat #: LIMT-22296		Page 9	of 16
QC Batch Numbe	r: GCMS/VOL-21247				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
FBLANK-90219					
	n-Propylbenzene	Lab Fort Blk. Found	0.017	mg/kg	
		Lab Fort Blk. % Rec.	85.800	%	70-130
	sec-Butylbenzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.017	mg/kg	
		Lab Fort Blk. % Rec.	85.000	%	70-130
	tert-Butylbenzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	82.700	%	70-160
	1,2,3-Trichlorobenzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	82.200	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	79.600	%	40-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	83.500	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.017	mg/kg	
		Lab Fort Blk. % Rec.	88.000	%	70-130
	Dibromomethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	80.400	%	70-130
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	78.300	%	70-130
	4-Chlorotoluene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.017	mg/kg	
		Lab Fort Blk. % Rec.	86.000	%	70-130
	1,1-Dichloropropene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	81.800	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.014	mg/kg	
		Lab Fort Blk. % Rec.	74.500	%	70-130
	1,3-Dichloropropane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	77.200	%	70-130
	2,2-Dichloropropane	Lab Fort Blank Amt.	0.020	mg/kg	
	, ,	Lab Fort Blk. Found	0.013	mg/kg	
		Lab Fort Blk. % Rec.	69.100	%	70-130
	1,1,1,2-Tetrachloroethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/2/2009	Lims Bat #: LIMT-22296		Page 1	10 of 16
QC Batch Number	er: GCMS/VOL-21247				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
_FBLANK-90219)				
	1,1,1,2-Tetrachloroethane	Lab Fort Blk. % Rec.	75.800	%	70-130
	1,2,3-Trichloropropane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.013	mg/kg	
		Lab Fort Blk. % Rec.	66.600	%	40-130
	n-Butylbenzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.017	mg/kg	
		Lab Fort Blk. % Rec.	85.400	%	70-160
	Dichlorodifluoromethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	76.600	%	40-160
	Bromochloromethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.017	mg/kg	
		Lab Fort Blk. % Rec.	87.500	%	70-130
	Bromobenzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	83.100	%	70-130
	Acrylonitrile	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.014	mg/kg	
		Lab Fort Blk. % Rec.	74.500	%	70-160
	Carbon Disulfide	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	81.200	%	70-160
	2-Hexanone	Lab Fort Blank Amt.	0.200	mg/kg	
		Lab Fort Blk. Found	0.157	mg/kg	
		Lab Fort Blk. % Rec.	78.750	%	70-160
	trans-1,4-Dichloro-2-Butene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.012	mg/kg	
		Lab Fort Blk. % Rec.	64.900	%	70-130
	Diethyl Ether	Lab Fort Blank Amt.	0.020	mg/kg	
	•	Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	75.200	%	70-130
	Bromodichloromethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	75.700	%	70-130
	1,2-Dibromo-3-Chloropropane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.014	mg/kg	
		Lab Fort Blk. % Rec.	73.300	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	80.800	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	0.020	mg/kg	
	-	Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	82.200	%	70-130



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

1/2/2009	Lims Bat #: LIMT-22296		Page	11 of 16
GCMS/VOL-21247				
Analysis	QC Analysis	Values	Units	Limits
tert-Butyl Alcohol	Lab Fort Blank Amt.	0.200	mg/kg	
	Lab Fort Blk. Found	0.113	mg/kg	
	Lab Fort Blk. % Rec.	56.770	%	40-130
Diisopropyl Ether	Lab Fort Blank Amt.	0.020	mg/kg	
	Lab Fort Blk. Found	0.015	mg/kg	
	Lab Fort Blk. % Rec.	78.900	%	70-130
tert-Butylethyl Ether	Lab Fort Blank Amt.	0.020	mg/kg	
	Lab Fort Blk. Found	0.015	mg/kg	
	Lab Fort Blk. % Rec.	76.300	%	70-130
tert-Amylmethyl Ether	Lab Fort Blank Amt.	0.020	mg/kg	
	Lab Fort Blk. Found	0.015	mg/kg	
	Lab Fort Blk. % Rec.	76.800	%	70-130
	GCMS/VOL-21247 Analysis tert-Butyl Alcohol Diisopropyl Ether tert-Butylethyl Ether	GCMS/VOL-21247 Analysis QC Analysis tert-Butyl Alcohol Lab Fort Blank Amt. Lab Fort Blk. Found Lab Fort Blk. % Rec. Lab Fort Blank Amt. Lab Fort Blk. Found Lab Fort Blk. Found Lab Fort Blk. Found Lab Fort Blk. % Rec. tert-Butylethyl Ether Lab Fort Blank Amt. Lab Fort Blk. Found Lab Fort Blk. Found Lab Fort Blk. Found Lab Fort Blk. % Rec. tert-Amylmethyl Ether Lab Fort Blank Amt. Lab Fort Blank Amt. Lab Fort Blank Found	GCMS/VOL-21247 QC Analysis Values tert-Butyl Alcohol Lab Fort Blank Amt. D.200 Lab Fort Blk. Found D.113 Lab Fort Blk. Found D.113 Lab Fort Blk. W Rec. D.200 Lab Fort Blank Amt. D.020 Lab Fort Blk. Found D.015 Lab Fort Blk. Found D.015 Lab Fort Blk. W Rec. D.020 Lab Fort Blk. W Rec. D.020 Lab Fort Blk. Found D.015 Lab Fort Blk. Found D.015 Lab Fort Blk. W Rec. D.020 Lab Fort Blk. W Rec. D.020 Lab Fort Blk. Found D.015 Lab Fort Blank Amt. D.020 Lab Fort Blk. Found D.015 Lab Fort Blank Amt. D.020 Lab Fort Blk. Found D.015 Lab Fo	Analysis QC Analysis Values Units



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/2/2009	Lims Bat #: LIMT-22296		Page 12 of	16
QC Batch Number	: HG-9750				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50779					
	Mercury	Sample Amount	0.070	mg/kg dry wt	
		Duplicate Value	0.056	mg/kg dry wt	
		Duplicate RPD	21.237	%	0-35
		Sample Amount	0.070	mg/kg dry wt	
		Matrix Spk Amt Added	0.234	mg/kg dry wt	
		MS Amt Measured	0.320	mg/kg dry wt	
		Matrix Spike % Rec.	106.387	%	75-125
BLANK-128090					
	Mercury	Blank	<0.025	mg/kg dry wt	
LFBLANK-90101					
	Mercury	Lab Fort Blank Amt.	1.250	mg/kg dry wt	
		Lab Fort Blk. Found	1.202	mg/kg dry wt	
		Lab Fort Blk. % Rec.	96.167	%	65.9-133



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/2/2009	Lims Bat #: LIMT-22296		Page 13 o	f 16
QC Batch Numb	er: ICP-20896				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50788			0.44		
	Arsenic	Sample Amount	6.14	mg/kg dry wt	
		Duplicate Value	6.37	mg/kg dry wt	0.05
		Duplicate RPD	3.78	%	0-35
		Sample Amount	6.14	mg/kg dry wt	
		Matrix Spk Amt Added	26.48	mg/kg dry wt	
		MS Amt Measured	31.72	mg/kg dry wt	
21 44114 400400		Matrix Spike % Rec.	96.61	%	75-125
3LANK-128136	0"	St. 1	.0.50		
	Silver	Blank	<0.50	mg/kg dry wt	
	Arsenic	Blank	<2.50	mg/kg dry wt	
	Beryllium	Blank	<0.25	mg/kg dry wt	
	Cadmium	Blank	<0.25	mg/kg dry wt	
	Chromium	Blank	<0.50	mg/kg dry wt	
	Copper	Blank	<0.50	mg/kg dry wt	
	Nickel	Blank	<0.50	mg/kg dry wt	
	Lead	Blank	<0.75	mg/kg dry wt	
	Antimony	Blank	<4.00	mg/kg dry wt	
	Selenium	Blank	<5.00	mg/kg dry wt	
	Thallium	Blank	<3.00	mg/kg dry wt	
EDI ANIK OOAEG	Zinc	Blank	<1.00	mg/kg dry wt	
_FBLANK-90153		Lab Fort Dlauk Anst	04.00	man and the annual means and	
	Silver	Lab Fort Blank Amt.	81.20	mg/kg dry wt	
		Lab Fort Blk. Found Lab Fort Blk. % Rec.	72.45 89.23	mg/kg dry wt	66-133
	Araonio			%	00-133
	Arsenic	Lab Fort Blank Amt. Lab Fort Blk. Found	133.00	mg/kg dry wt	
			129.91	mg/kg dry wt	00 100
	D a mulliuma	Lab Fort Black Area	97.68	%	80-120
	Beryllium	Lab Fort Blank Amt. Lab Fort Blk. Found	117.00	mg/kg dry wt	
		Lab Fort Blk. % Rec.	117.59	mg/kg dry wt	04 116
	Codmium	Lab Fort Blank Amt.	100.50	%	84-116
	Cadmium	Lab Fort Blank Amt. Lab Fort Blk. Found	103.00	mg/kg dry wt	
			99.74	mg/kg dry wt	02 117
	Oh ma mais sma	Lab Fort Black Area	96.83	%	83-117
	Chromium	Lab Fort Blank Amt.	219.00	mg/kg dry wt	
		Lab Fort Blk. Found	218.62	mg/kg dry wt	00 440
	0	Lab Fort Black Area	99.82	%	82-118
	Copper	Lab Fort Blank Amt.	155.00	mg/kg dry wt	
		Lab Fort Blk. Found	153.82	mg/kg dry wt	00 447
	Nijakal	Lab Fort Black Area	99.23	%	83-117
	Nickel	Lab Fort Blank Amt.	119.00	mg/kg dry wt	
		Lab Fort Blk. Found	112.78	mg/kg dry wt	00.100
		Lab Fort Blk. % Rec.	94.77	%	80-120
	Lead	Lab Fort Blank Amt.	168.00	mg/kg dry wt	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/2/2009	Lims Bat #: LIMT-22296		Page 14 o	f 16
QC Batch Numb	per: ICP-20896				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-9015	3				
	Lead	Lab Fort Blk. Found	155.52	mg/kg dry wt	
		Lab Fort Blk. % Rec.	92.57	%	82-118
	Antimony	Lab Fort Blank Amt.	79.20	mg/kg dry wt	
		Lab Fort Blk. Found	96.09	mg/kg dry wt	
		Lab Fort Blk. % Rec.	121.32	%	30-207
	Selenium	Lab Fort Blank Amt.	94.10	mg/kg dry wt	
		Lab Fort Blk. Found	96.24	mg/kg dry wt	
		Lab Fort Blk. % Rec.	102.27	%	77-123
	Thallium	Lab Fort Blank Amt.	152.00	mg/kg dry wt	
		Lab Fort Blk. Found	144.86	mg/kg dry wt	
		Lab Fort Blk. % Rec.	95.30	%	82-120
	Zinc	Lab Fort Blank Amt.	280.00	mg/kg dry wt	
		Lab Fort Blk. Found	264.14	mg/kg dry wt	
		Lab Fort Blk. % Rec.	94.33	%	81-119



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/2/2009 Lims Bat #: LIMT-22296 Page 15 of 16

NOTES:

QC Batch No. : GC/FID-22891 Sample ID : 08B50779 Analysis : Terphenyl

SURROGATE CONCENTRATION BELOW DETECTION LIMIT DUE TO DILUTION REQUIRED

FOR SAMPLE ANALYSIS.

QC Batch No. : GC/FID-22891
Sample ID : 08B50795
Analysis : Terphenyl

SURROGATE CONCENTRATION BELOW DETECTION LIMIT DUE TO DILUTION REQUIRED

FOR SAMPLE ANALYSIS.

QC Batch No. : GCMS/VOL-21247
Sample ID : LFBLANK-90219
Analysis : 2,2-Dichloropropane

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. ANY REPORTED RESULT FOR THIS COMPOUND IN THIS BATCH IS LIKELY TO BE BIASED ON THE LOW SIDE.

QC Batch No. : GCMS/VOL-21247 Sample ID : LFBLANK-90219

Analysis : trans-1,4-Dichloro-2-Butene

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. ANY REPORTED RESULT FOR THIS COMPOUND IN THIS BATCH IS LIKELY TO BE BIASED ON THE LOW SIDE.



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/2/2009 Lims Bat #: LIMT-22296 Page 16 of 16

OUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

This is the number assigned to all samples analyzed together that QC BATCH NUMBER

would be subject to comparison with a particular set of Quality

Control Data.

Upper and Lower Control Limits for the QC ANALYSIS Reported. All LIMITS

values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY

REPORT. Not all QC results will have Limits defined.

Sample Amount Amount of analyte found in a sample.

Method Blank that has been taken though all the steps of the Blank

an alysis.

LFBLANK Laboratory Fortified Blank (a control sample)

STDADD Standard Added (a laboratory control sample)

Matrix Spk Amt Added

Amount of analyte spiked into a sample Amount of analyte found including amount that was spiked MS Amt Measured

% Recovery of spiked amount in sample. Matrix Spike % Rec.

Duplicate Value The result from the Duplicate analysis of the sample.

Duplicate RPD The Relative Percent Difference between two Duplicate Analyses.

The % Recovery for non-environmental compounds (surrogates) Surrogate Recovery

spiked into samples to determine the performance of

an alytical methods.

Surrogate Recovery on the Electrolytic Conductivity Detector. Sur. Recovery (ELCD)

Sur. Recovery (PID) Surrogate Recovery on the Photoionization Detector.

Standard Measured Amount measured for a laboratory control sample Standard Amt Added

Known value for a laboratory control sample % recovered for a laboratory control sample with a known value. Standard % Recovery

Lab Fort Blank Amt Laboratory Fortified Blank Amount Added Lab Fort Blk. Found Laboratory Fortified Blank Amount Found

Lab Fort Blk % Rec Laboratory Fortified Blank % Recovered

Duplicate Laboratory Fortified Blank Amount Added Dup Lab Fort Bl Amt Duplicate Laboratory Fortified Blank Amount Found Dup Lab Fort Bl Fnd Duplicate Laboratory Fortified Blank % Recovery Dup Lab Fort Bl % Rec

Lab Fort Blank Range Laboratory Fortified Blank Range (Absolute value of difference

between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).

Lab Fort Bl. Av. Rec. Laboratory Fortified Blank Average Recovery

Duplicate Sample Amt Sample Value for Duplicate used with Matrix Spike Duplicate

MSD Amount Added Matrix Spike Duplicate Amount Added (Spiked)

MSD Amt Measured Matrix Spike Duplicate Amount Measured

MSD % Recovery Matrix Spike Duplicate % Recovery

MSD Range Absolute difference between Matrix Spike and Matrix Spike

Duplicate Recoveries



REASONABLE CONFIDENCE PROTOCOL

LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	Con-Test Analytical Laboratory	Client:	METCAL
------------------	--------------------------------	---------	--------

Project Location: 80 HASTINGS ST. Project Number: LIMT-22296

BRIDGE port

Laboratory Sample ID(s): 08B50774-08B50797 Sampling Date(s): 12/22/08-12/23/08

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8082, 8260, 6010, ETPH, 7471,

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	Yes 🗆 No
1A	Were the method specified preservation and holding time requirements met?	XYes □ No
1B	VPH and EPH Methods only: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	□Yes □ No > N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	XYes □ No
3	Were samples received at an appropriate temperature (<6° °C°)?	Yes no No no N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	□Yes X No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	XYes □ No Yes □ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	□Yes X No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	XYes □ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered and all questions must be answered.

	s and penalties of perjury that, to the best of my personal inquiry of those responsible for providing
the information contained in this analytical	report, such information is accurate and complete.
Authorized Signature: Edward De	Position: Technical Director
Printed Name: Edward Denson	Date: 1/2/09
Name of Laboratory: CON-TEST ANALY	TICAL LABORATORY

This certification form is to be used for RCP methods only.

Email: info@contestlabs.com Phone: 413-525-2332 Fax: 413-525-6405

16 RPR -1 WIT CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR EAST LONGMEADOW, MA 01028

Company Name: MFTCALEX EINY	www.contestlabs.com ルデー/カノワ	Telenhone (20) 1741	Xor -			5 -		_				# of containers
OGO WAYN ST	ペ <u>オラン</u>	Project # 600 T		4	<	£ .	A	74				~Cont.Code
Č	06492	Client PO #			***************************************		Ž	.AL Y	ANALYSIS REQUESTED	GEST	~	-Cont. Code:
Attention: Dorniel Screnet		DATA DELIVERY (check one):	neck one):									A=amber glass
0		DFAX DEMAIL *	DEMAIL MOVEBSITE CLIENT	<u>"</u>								P=plastic
Project Location: OU HASTINGS ST	PRIMERUMECT		- American									ST=sterile
Sampled By: 1/2, 5'e revet /		Email: Man, SEI	exet pagon	(0,4								V∈ vial
		Format: Y-XCEL	Stable 0	□ GIS KEY	7 J			+				S=summa can
Proposal Provided? (For Billing purposes)	State Form Required?	O OTHER		-		<u> </u>	3	ri				T=tedar bag
yes proposal date	☐ yes ☐ no	Date Sampled			<u> </u>		<u>-:</u> Pi	T				0=0ther
Field ID Sample Description	Lab # <i>() </i>	Start Stop Date/Time Date/Time	Comp- osite Grab Code	Code	<u>* //</u> \/	A, VPP E	P					
58-12	50774	12/2/03	X 5	×				-				Client Comments:
58-13	50775	12/21/1/28		**************************************	4	. 1						
SB-13 DUP	50776	12/2/68			×	`						
SB-14	50777	12/22/08	MSS-ANNITE COLUMN TO A .	X	· ·	X						
50-15	50 778	12/12/00	Mall amount on the same of		7	ヌ	,					
S B - 16	50779	12/22/09					X	X				
5 8 - 17	50780	12/22/68	<u> </u>	Z	, ,			·				
5 B- 18	50781	12/22/08	\$	X								
Laboratory Comments: Dy Thisolid Reconstact VCC Sallilles, Phr US	Afor Woc Sallill		WZ / Wa; Wh + pr Ple	Please use the following codes to let Con-Test know be high in concentration in Matrix/Conc. Code Box:	owing ation i	codes n Mat	to let o	Con-Ti	est know if a de Box:	use the following codes to let Con-Test know if a specific sample may in concentration in Matrix/Conc. Code Box:	ie may	
			=	H - High; M - Medium; L - Low;	m; ال	- Low;	C -C	ean;	C - Clean; U - Unknown			
shed by: (signature)		Turnaround **	Detection Lir	imit Requirements	ents	, ••	*Wat	*Matrix Code:	de:	**Preservation Codes:	n Code	
Received by: (signature)	Date/Time:	CHO-Day No	Regulations?			$\overrightarrow{\sim}$	≨ § §	groun	GW= groundwater WW= wastewater	I = lced	→ ×	X = Na hydroxide
	1774-8 1030	Other	Data Enhancement Project(RCP)	nt Project(RCP)	Ìġ. Y	o Z	DW.	: drink	DW = drinking water	M = Methanol		
Relinquished by: (signature)	Date/Time:	RUSH *	Special Decuirem	ante or Direct			A = air	A = air		N = Nitric Acid	2)
Received by: (signature)	Date/∫ime://_}}	☐ *72-Hr ☐ *4-Day	OF THE ROSER	Reserve	>		<u>s</u>	SL = sludge	Φ .	B = Sodium bisulfate	isulfate	(
				,	1							-

* Require lab approval

0 = Other___

ANALYTICAL LABORATORY	

Email: Info@contestlabs.com Fax: 413-525-6405 Phone: 413-525-2332

CHAIN OF CUSTODY RECORD

EAST LONGMEADOW, MA 01028 39 SPRUCE ST, 2ND FLOOR

INCORRE		Received b	1	Relinguish		Received by:	Service Contract of the service of t	Relinquish			Laboratory									Field ID	O yes	Proposal		Sampled By:	Project Location:		Attention:		Address:	Company Name:
CT THRUMBOUND TIME WII		Received by: (signature)		Relinguished by: (slighature)		oy: (signature)	San San San San San San San San San San	Relinquished by: (signature)			Laboratory Comments:	50-26	27-85	トペータン	58-23	20-22	507	58-20	513-19	Sample Description	proposal date	Proposal Provided? (For Billing purposes)		By: SEREMET	ocation: VALVEFIORT		Donal source	Walley Rd	W N 093	をアンダー
INCORRECT THRUARDING TIME WILL NOT START HATH ALL OHIESTIONS ARE ANSWERED BY OHR CHIRATONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR		Date/Time/ ///	201		10-24-8 10	ľ	€.	Date/Time:				50789	50788	50787	50786	58785	18605	28202	48505	Lab # 08 8	late 🔲 yes 🗍 no	oses) State Form Required?	AMMINIMALITY		030000		e+	C7 06492	mainst at	TEMPY AECOM
ESTIONS ARE ANSWERED THE	* Require lab approva	↑	10 5 8 0 *24-Hr O *48-Hr	=			() () () () () () () () () ()	Turnaround **	1 30 50 50 60			4466	14/22/05	Harjos	14×108	12/2468	30/4/21	20Ketri	12/22/08	Start Stop Date/Time Date/Time	Date Sampled	red? DOTHER	Format: A EXCEL	Email: Con. Sc		DFAX DEMAIL	DATA DELIVERY (check one):	Client PO#	Project # 600	Telephone:(20)
RE ARE QUESTIONS	a	The Refund	Special Requirements	I	Data Enhancement Project/RCP?	Cox 85 35	Regulations?	Detection Limit	n, franker Hill	be hig	Please	7 5	<i>K</i>	4	4	9	4	7	×	Comp- *Matrix osite Grab Code			APDF DIGIS	Cremet to vecent	T. C. C. C. C. C. C. C. C. C. C. C. C. C.	WWEBSITE CLIENT	check one):		60045450 204	741-2979
ON YOUR CHAIN.		Ŝ.	s or DL's:		ľ		/ ハ ハ ハ	Requirements	H - High; M - Medium; L - Low;	be high in concentration in Matrix/Conc. Code Box:	e use the following c	×	X	8	9	×	9	5	4	Conc. Code	rs Vi	2000 1000 1000 1000 1000 1000 1000 1000	Ê	Š						
IF THIS	0	S	S		(1 Matrix/	odes to									_/	00	O	3					750		
FORM IS NOT FILI	O = other	St = sludge	S = soil/solid	A = air	DW = drinking water	WW= wastewater	W = aroundwater	*Matrix Code:	C - Clean; U - Unknown	Conc. Code Box:	use the following codes to let Con-Test know if a specific sample may									<i>Y</i>	E	1 / 1	4					ANALYSIS REQUESTED		
LED OUT COMPLI	O = Other	B = Sodium bisulfate	S = Sulfuric Acid	N = Nitric Acid	W = Methanol	# # HCL	I ~ Iced	**Preservation Codes:	wn		a specific sample																	UESTED		
ETELY OR IS		Wate C	_))			T = Na thiosulfate	★ - Na hudrovida	Codes:			may								Comments:		O =Other	T≂tedlar bag	S =summa can	V= vial	ST-sterile	D 1 0 1 1	A=amber glass	-Cont. Code:	~Cont.Code	# of containers **Preservation

INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

Fax: 413-525-6405 Phone: 413-525-2332

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. 2ND FLOOR

EAST LONGMEADOW, MA 01028	SO OF HOCH SI, AND THOCH
	- 0

X = Na hydroxida	**Preservation Codes:	GW= groundwater	lents	CT PSP	Perculations?		12/24/08 18:70	nemigranically, (signature)
The street of th					7		Data Tima:	Deliberished has (cienature)
ianicean		C - Clean; U - Unknown	um; L - Low;	H - High; M - Medium; L -	, y	in it suit in pair		
		in concentration in Matrix/Conc. Code Box:	ration in Matı	be high in concent				
	a specific sample may	use the following codes to let Con-Test know if a specific sample may	owing codes	Please use the foll				Laboratory Comments:
			*	×		Calm	5097	53-34 0-2
		X	A T			12/22/02	36005	28-23
			9	X		5	50795	58-32
			<i>(X</i>	^-			464.05	SB-31
			4	X			50793	58-30
•		The state of the s	1	4			50797	20-29
			<u> </u>	\ \text{\alpha}			50791	50-28
Comments				5 Q		12/2/04	50790	50-27
		V	1 Z	*Matrix Conc. Code Code	Comp- osite Grab	Start Stop Date/Time Date/Time	Lab # 08B	Field ID Sample Description
0=Other		/0	10 10			Date Sampled	☐ yes ☐ no	yes proposal date
T=tedlar bag		C	1 e a d 14	The state of the s	I.	O OTHER	State Form Required?	Proposal Provided? (For Billing purposes)
S=summa car		\$	- 1. 	ÆY —	A POF	Format: TEXCEL		ve.
V= vial			r <	47	Email: don secrete accorder	Email: don . 5		Sampled By: Spk Wh ET
ST-sterile			***************************************	THE PROPERTY AND PAGE 1			e substitutes	Project Location: PRINCEPORT, C
U				CLIENT	}	DFAX DEMAI		
G-mass glas				***************************************	(check one):	DATA DELIVERY (check one):		Attention: Dine Servet
-Cont. Code;	- m - m - m	ANALYSIS REQUESTED			- Amazania	Client PO #	06493	willy land CT DI
~Cont.Code			A 4	 	43450,04	Project # 6043450,04	なく	Address: 660 N. May St.
**Preservation			, j	20 30	Telephone:(20) 741-261	Telephone:(20)	AECON	Company Name: METZALF & PAR
# of containers		V) -				www.contestlabs.com	e e e e e e e e e e e e e e e e e e e
		,		100	ラートなりの		Email: info@contestlabs.com	ANALYTICAL LABORATORY

INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS

* Require lab approval □ *72-Hr □ *4-Day

Received by:

(signature)

Date/Time/

□ *24-Hr □ *48-Hr

Special Requirements or DL's:

と記されるの

SL = sludge S = soil/solid

B = Sodium bisulfate S = Sulfuric Acid

O = Other_

O = other_

Data Enhancement Project(RCP9 A Y D N

DW= drinking water . WW= wastewater

M = Methanol HCL HCL

T = Na thiosulfate

N = Nitric Acid

RUSH * Other

Relinquished by;

Received by:

Date/Time: /フィッツ w

020

Date/Time: 2070

AIHA, NELAC & WBE/DBE Certified



Fax: 413-525-6405 Phone: 413-525-2332

CHAIN OF CUSTODY RECORD

EAST LONGMEADOW, MA 01028 39 SPRUCE ST, 2ND FLOOR

Page)
	5
	`_^

T - No thiosulfato	I I	WW- wastewater	15 6 JUS	3	-	(Direct &	18 July		į Ļ	(cinyatura)	Baceived by: (signatura)
X = Na hydroxide	I = lced	GW= groundwater		N)	2000 2000	Regulations?	3		DE DE		Mary Mary
Codes:	**Preservation Codes:	*Matrix Code:	ents	guirem	Limit Re	Detection Limit Requirements	** bnuc	** Turnaround	Date/Time: (v:32	Relingyished by: (signature)	Relingyished
	NI)	C - Clean; U - Unknown	H - High; M - Medium; L - Low;	M - Mediu	H - High; I						
		in concentration in Matrix/Conc. Code Box:	tion in Matri	concentra							
may	a specific sample	use the following codes to let Con-Test know if a specific sample may	wing codes t	e the follo	Please us				Accessors (Accessed to the Control of the Control o	mments:	Laboratory Comments:
									; - 11.6d		
			X		0			12/27/08	TO THE PARTY OF TH	DUB MIKEL BUR	
			×		0			12/27/28		PCB WINE !	
-				×	6			go/cc/n		20 -31 2-4	
				×				3427/68	The state of the s	5 9-36 0-2	
11070				4				\$ 0/25/m		SD-35 X 4-3	
<u>.</u>				X	,			12/27/08		50-35 0-2	
Comments:				X	5	X		12/12/108	And the state of t	53-34 2-4	
			Ì	Conc.	*Matrix Co	Comp- osite Grab	Stop C Date/Time C	Start S Date/Time	Lab #	Sample Description	Field ID S
O=Other	ALUMNIA TO THE TOTAL THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE		20	1			mpled	Date Sampled	☐ yes ☐ no	proposal date	☐ yes
T=tedlar bag			O	<u> </u>		**************************************	O OTHER		State Form Required?	Proposal Provided? (For Billing purposes)	roposal Pro
S=summa can					□ GIS KEY	Ø PDF [Format: X EXCEL			
V= vial			<i>i</i> *<	<i>i</i> *(1.(0.0)	Email: dans expresso reconcern	Seeme	Email:		SERPACT	Sampled By:
P=plastic ST=sterile						DEMAIL SWEBSITE CLIENT	EMAIL 2	Fax #:		Project Location: BRINCEPORT,	roject Loca
G=glass						ck one):	VERY (che	DATA DELIVERY (check one):	***************************************	Pens (Serenet	Attention:
-Cont. Code: A-amber class	ESTED	ANALYSIS REQUESTED		1				Client PO#	06492	infultions of	1
-Cont.Code		***************************************	9	12		Project # 60, 45450, 04	154.03	Project #	7	660 N.MAINST 1	\ddress:
**Preservation			\$			Telephone:(203) / 71 / 0 / 1	7/ (203)	Telephone:(ARCIN	company Name: 10 by Mit SAMI (ARCON	ompany Na
# of containers					0	このし	70		www.contestlabs.com	Ĺ	en en en en en en en en en en en en en e
	:	THE COLUMN TWO COLUMNS AND ADDRESS.						s.com	Email: info@contestlabs.com	ANALYTICAL LABORATORY	

* Require lab approval ☐ *72-Hr ☐ *4-Day □ *24-Hr □ *48-Hr

Date/Time: Date/Time:

050

RUSH *

Other

Data Enhancement Project/RCP 2017 CIN

DW= drinking water WW≔ wastewater

H = HCL M = Methanol

T = Na thiosulfate

A = air

SL = sludge S = soil/solid

B = Sodium bisulfate S = Sulfuric Acid N = Nitric Acid

o = Other_

o = other_

Special Requirements or DL's:

Received by: (signature)

⊌ished by

Phone: 413-525-2332 Fax: 413-525-6405

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR EAST LONGMEADOW, MA 01028

ë		
-	Л	1
ੂ		F
	V	^
}		

	<u></u>	M = Methanol	M = 1	water	DW= drinking water	DW= d		J A C	CP?	roject/F	ement l	Data Enhancement Project/RCP? DY DN	Data	Other		ロジェイ からし	24	The Carried States of the Control of	
= Na thiosulfate	-	Ω̈́	H-HCL	ter	WW= wastewater	W = W		CAPINE	BOIZE C	S.	Υ ~	シャヤット	, a.	10 July 10 Jul					
X = Na hydroxide	×	pę	I = Iced	ater	GW= groundwater	GW≃gi	<u> </u>		RSR	7	0	Regulations?	Regu	Day	a	12/24/50 1033	The second second		1
38:	on Code	**Preservation Codes	**Pre		Code:	*Matrix Code:		ents	irem	t Requirements	Limit	Detection	De	urnaround **	urnar	Date/Time:	tyre)	Relinguished by: (signature)	Relingui
			'n	Jnknow	C - Clean; U - Unknown	: - Clea		n; ř -	Mediur	H - Hìgh; M - Medium; L - Low;	H-H		64	our subconruct	190 ar Su				
	no may	be high in concentration in Matrix/Conc. Code Box:	a apecii	Sox:	Code E	/Conc.	Matrix	tion in	centra	be high in concentration in Matrix/Conc. Code Box.	be hig							Laboratory Comments:	Laborato
	a may	2000	Snoot		To+.									**************************************					
	X			_							2	5			Mayor		-72 pur	\$ 25	
					X		_								40/20/04	9	-29 DUP	53	
			X		-	<u> </u>	_								haples.	- Margar	2 B - 1 6 DUP	5 3	
	<u> </u>	X	┪			-	<u> </u>								12/22/09		- I'll pup	2	
					X										Beprehal		D-12 DVP	4	
	<u> </u>	-	-			K					1				12/22/67		S B-30 DVP	S 8-	
Comments	1				-	K	X	K	4		1	g		***	12/23/08	***************************************	Total Control of the	m W	
Client								PI	C	Conc.	.Matrix Code	Grab	osite	Stop Date/Time	Start S Date/Time C	Lab # D		Sample Description	Field ID
0 =Other		VIPPE	PP	ν. V.	<u>~</u> е	V	CB 2(2 (CB					npled	ate S	☐ yes ☐ no	proposal date	ŠŠ	☐ yes
T=tedlar bag		<u>_</u> T	13	, <u>C</u>	s-v	<u>90</u>	P	<u> </u>	<u>د</u>					OTHER		State Form Required?	Proposal Provided? (For Billing purposes)	l Provided? (F	Proposal
S=summa can		12 Y	0	<u>. </u>	<u>. </u>	 	4	<u></u>	, <u>.</u>		GIS KEY		1 PDF	DEXCEL	Format: Q-E	F			
V= vial) -	m l		,			lt.	<u>.</u>	Ş	Vac	/	Seremet		Email: 0	П	1 Spann	l By:	Sampled By:
ST=sterile			+ (را .					1		Fax # :		Project Location: Ods Www CT	ocation:	^o roject L
P=plastic			11			.					ENT	SOWEBSITE CLIENT	WEB	□EMAIL €	DFAX D				
G =glass												ne):	leck o	/ERY (c)	DATA DELIVERY (check one):		3+		Attention:
-Cont. Code: A=amber glass	5 17		ANALYSIS REQUESTED		<u></u> 	- A	<u> </u>								Client PO#	The state of the s	wally Kord CT Obyen 7	wally	
-Cont.Code	1	4	4	<	7	A	4	20	P			60025450.07	7.	309	Project #	A CONTRACTOR OF THE CONTRACTOR	Nr. May 5+ 18+4	000	\ddress:
Preservation				1			┪~	1	_		`	10	-/1/-	5)	Telephone:(10)) (11-20)	ARLUM TE	Company Name: IN PTCACE & Z////	/ Name: 📢	ompany
# of containers	* #			7 77	- / m		· 12)	- V		ر. س	ر م	761	نہ		labs.com	Characters.		enter enter enter
				إر	7	1		1		ד					öm	Email: info@contestlabs.com	ANALYTICAL LABORATORY	ANALYT	Í

Received by: (signature)

pauished by

Date/Time:

1358 0 *24-Hr 0 *48-Hr 1350 0 *72-Hr 0 *4-Day

Special Requirements or DL's:

A = air

N = Nitric Acid

S = soil/solid SL = sludge

S = Sulfuric Acid

B = Sodium bisulfate

RUSH *

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR 18

www.contestlabs.com

)o all samples have the proper pH: Yes No N/A



Sample Receipt Checklist

39 Spruce St. East Longmeadow, MA. 01028 P: 413-525-2332 F: 413-525-6405

 			_		1	
			,		/ .	
	4		1.	80 1	\sim	
	- }	٦.	/	111	-46	
	•	1	/ 1	111	// /	

CLIENT NAME: Mefcalf/	AECoan	RECEIVE	ED BY:			DATE:_	12/24/08
1) Was the chain(s) of custody re 2) Does the chain agree with the If not, explain: 3) Are all the samples in good co	elinquished and sig samples?	ned?	(Y (Y)	es)	No No No		
If not, explain:							
4) How were the samples receive	ed:		·		, , [7	
On Ice Direct from S	ampling [Ambient	,	· I	er(s) [
Were the samples received in To	emperature Complia	nce of (2-	, 0, .	es/	No		
Temperature °C by Temp blank	3.0	Tempera	ture °C by Te	emp (gun		
5) Are there Dissolved samples	for the lab to filter?			'es	No		
Who was notified	Date	Tim	e			Stored	where
6) Are there any samples "On Ho	old"?		Υ	es	(NO)	Stoted ,	Witere.
7) Are there any RUSH or SHOR	T HOLDING TIME sa	imples?		es	(NO)		
Who was notified	Date	Tim	e				waloo? Voc No
8) Location where samples are s	stored: 9		L. CHINOOK	,,,,,,,			mples? Yes No ready approved
			Client Sig	natu	re:		
					(A) 9 WE NE		
(Containers s	ent in	to Con-	Tes	<u>st</u>		U. f ratoinoro
	# of containers		<u> </u>				# of containers
1 Liter Amber	4	_	8 oz (7 ;
500 mL Amber	,		4 oz (<u> </u>
250 mL Amber (8oz amber)	39	_	2 oz (
1 Liter Plastic		_	Other				
500 mL Plastic			Plastic E				
250 mL plastic	4		Air C				
40 mL Vial - type listed below			Brass		ves		
Colisure / bacteria bottle	,		T	ibes			
Dissolved Oxygen bottle			Sumn	na Ca	ans		
Flashpoint bottle			Reg	ulato	rs		
Encore		_	0	ther	,	MAN MAN MAN MAN MAN MAN MAN MAN MAN MAN	
						100	
_aboratory Comments:							
	# Methanol 3						
10 mL vials: #HCI 7	# Methanol		— Timo and	i Daf	e Froz	en:	
# Bisulfate	# DI Water			. Dui		_ ***	
# Thiosulfate	Unpreserved	U					



REPORT DATE 1/5/2009

METCALF & EDDY - WALLINGFORD 860 N. MAIN STREET EXTENSION WALLINGFORD, CT 06492 ATTN: DANIEL SEREMET

CONTRACT NUMBER: PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-22297

JOB NUMBER: 60045450.04

PROJECT LOCATION: 80 HASTINGS ST, BRIDGEPORT, CT

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
EB	08B50805	WATER OTHE	Not Specified	6020 pp 12 water	
EB	08B50805	WATER OTHE	Not Specified	8082 water	
EB	08B50805	WATER OTHE	Not Specified	8260 water	
EB	08B50805	WATER OTHE	Not Specified	etph water	
EB	08B50805	WATER OTHE	Not Specified	hg (mg/l) wet	
PCB WIPE 1	08B50803	WIPE - OTHER	Not Specified	pcb wipe 8082	
PCB WIPE 1 DUP	08B50804	WIPE - OTHER	Not Specified	pcb wipe 8082	
SB-12 DUP	08B50807	SOIL	Not Specified	as (mg/kg)dw icp	
SB-12 DUP	08B50807	SOIL	Not Specified	solids (percent)	
SB-14 DUP	08B50808	SOIL	Not Specified	8082 drywt	
SB-14 DUP	08B50808	SOIL	Not Specified	solids (percent)	
SB-16 DUP	08B50809	SOIL	Not Specified	metals(13pp)sicp	
SB-16 DUP	08B50809	SOIL	Not Specified	solids (percent)	
SB-29 DUP	08B50810	SOIL	Not Specified	as (mg/kg)dw icp	
SB-29 DUP	08B50810	SOIL	Not Specified	solids (percent)	
SB-30 DUP	08B50806	SOIL	Not Specified	pb (mg/kg)dw icp	
SB-30 DUP	08B50806	SOIL	Not Specified	solids (percent)	
SB-32 DUP	08B50811	SOIL	Not Specified	etph dry weight	
SB-32 DUP	08B50811	SOIL	Not Specified	solids (percent)	
SB-34 2-4	08B50798	SOIL	Not Specified	as (mg/kg)dw icp	
SB-34 2-4	08B50798	SOIL	Not Specified	solids (percent)	
SB-35 0-2	08B50799	SOIL	Not Specified	as (mg/kg)dw icp	
SB-35 0-2	08B50799	SOIL	Not Specified	solids (percent)	
SB-35 4-5	08B50800	SOIL	Not Specified	as (mg/kg)dw icp	
SB-35 4-5	08B50800	SOIL	Not Specified	solids (percent)	
SB-36 0-2	08B50801	SOIL	Not Specified	as (mg/kg)dw icp	
SB-36 0-2	08B50801	SOIL	Not Specified	solids (percent)	
SB-36 2-4	08B50802	SOIL	Not Specified	as (mg/kg)dw icp	
SB-36 2-4	08B50802	SOIL	Not Specified	solids (percent)	



REPORT DATE 1/5/2009

METCALF & EDDY - WALLINGFORD 860 N. MAIN STREET EXTENSION WALLINGFORD, CT 06492 ATTN: DANIEL SEREMET

CONTRACT NUMBER: PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-22297

JOB NUMBER: 60045450.04

Comments:

LIMS BATCH NO.: LIMT-22297

CASE NARRATIVE SUMMARY

Recommended sample holding times were not exceeded for all samples unless listed below: None Exceeded

All samples for the method(s) listed were received preserved properly in the proper containers at $4^{\circ}C$ +/- 2 degrees as specified on the chain-of-custody form unless listed below: All properly preserved

In method 6010, the low level calibration check is outside control limits for Zinc. Reported results for this element at or near the reporting limit may be bias on the high side.

In method 8260 low level water, initial and/or continuing calibration did not meet method specifications. For sample 08B50805, tert-Butyl Alcohol, 1,4-Dioxane, and 1,2-Dibromo-3-chloropropane were calibrated with a relative response factor <0.05.

There are no other analytical issues which affect the usability of the data.

DETAILED CASE NARRATIVE

METHOD SW846-7470A/7471A - ADDITIONAL COMMENTS

A sample duplicate and matrix spike were performed on WATER OTHER sample 08B50805. Sample duplicate not reported due to non-detect sample and duplicate results.

METHOD SW846-6020 - ADDITIONAL COMMENTS

Sample duplicate and matrix spike performed on sample 08B50805. Sample duplicates not reported for all elements due to non detect sample and duplicate results.

The LFB and matrix spike recoveries for Zn were outside of control limits. Data validation is not affected since the samples are non detect and the recovery bias is on the high side.

Only Sb, As, Be, Cd, Cr, Cu, Pb, Ni, Se, Ag, Tl and Zn were requested and reported.

METHOD SW846 8082 - ADDITIONAL COMMENTS

If dilutions were performed, only one dilution within the linear calibrated region of the curve is reported. All 8082 samples were analyzed undiluted unless specified below:

No dilutions were performed

METHOD SW846-6010 - ADDITIONAL COMMENTS

Only PP13 metals were requested and reported for sample 08B50809.

Only As was requested and reported for samples 08B50798 through 08B50802, 08B50807, and 08B50810. Only Pb was requested and reported for sample 08B50806.



REPORT DATE 1/5/2009

METCALF & EDDY - WALLINGFORD 860 N. MAIN STREET EXTENSION WALLINGFORD, CT 06492 ATTN: DANIEL SEREMET

CONTRACT NUMBER: PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-22297

JOB NUMBER: 60045450.04

Sample duplicate and matrix spike performed on SOIL sample 08B50801. Duplicate RPD is outside of control limits for Arsenic. Sample results are <5x the reporting limit, so the limits are not applicable.

METHOD SW846 8082 - ADDITIONAL COMMENTS

If dilutions were performed, only one dilution within the linear calibrated region of the curve is reported. All 8082 samples were analyzed undiluted unless specified below: No dilutions were performed

CT ETPH METHOD - ADDITIONAL COMMENTS Water and Soil

In method CT ETPH samples 08B50811(x20) was diluted because undiluted results were over the verified linear calibration range.

In method CT ETPH for samples 08B50811, the surrogate concentration is below detection limit due to dilution required for sample analysis and could not be reported.

METHOD SW846 8260 LOW LEVEL WATER - ADDITIONAL COMMENTS

The LCS recoveries for required CT reasonable confidence protocol (RCP) 8260 compounds were all within limits specified by the method except for "difficult analytes" where control limits somewhere between 40-160% are used and/or unless otherwise listed in this narrative.

Difficult analytes: MIBK, MEK, Tetrachloroethylene, Tert-butyl Alcohol, Acetone, 1,4-Dioxane, Vinyl Chloride, Chloromethane, Bromomethane, Naphthalene, 2,2-Dichloropropane, Dichlorodifluoromethane, 2-Hexanone, and Tert-butylethyl Ether

Compounds outside of control limits: None outside of control limits

All reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless listed below: All other reporting limits were met.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033 AIHA ELLAP (LEAD) 100033 NORTH CAROLINA CERT. # 652
MASSACHUSETTS MA0100 NEW HAMPSHIRE NELAP 2516 NEW JERSEY NELAP NJ MA007 (AIR)

CONNECTICUT PH-0567 VERMONT DOH (LEAD) No. LL015036 FLORIDA DOH E871027 (AIR)

NEW YORK ELAP/NELAP 10899 RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



REPORT DATE 1/5/2009

METCALF & EDDY - WALLINGFORD 860 N. MAIN STREET EXTENSION WALLINGFORD, CT 06492 ATTN: DANIEL SEREMET

CONTRACT NUMBER: PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #:

LIMT-22297

JOB NUMBER: 60045450.04

Michael Erickson

Assistant Laboratory Director

SIGNATURE

DATE

Edward Denson

Tod Kopyscinski

Air Laboratory Manager

Technical Director

Daren Damboragian

Organics Department Supervisor

* See end of data tabulation for notes and comments pertaining to this sample

Edward Denson 1/5/09



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 1 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: EB

Sample ID: 08B50805 ‡Sampled: 12/23/2008

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date	Analyst	RL	SPEC		P/F
			Analyzed			Lo	Hi	
Antimony	ug/L	ND	12/29/08	AMP	5.00			
Arsenic	ug/L	ND	12/30/08	AMP	2.00			
Beryllium	ug/L	ND	12/29/08	AMP	2.00			
Cadmium	ug/L	ND	12/29/08	AMP	2.50			
Chromium	ug/L	ND	12/29/08	AMP	50.0			
Copper	ug/L	ND	12/29/08	AMP	25.0			
Lead	ug/L	ND	12/29/08	AMP	5.00			
Nickel	ug/L	ND	12/29/08	AMP	25.0			
Selenium	ug/L	ND	12/29/08	AMP	25.0			
Silver	ug/L	ND	12/30/08	AMP	2.50			
Thallium	ug/L	ND	12/29/08	AMP	1.00			
Zinc	ug/L	ND	12/29/08	AMP	100			

Analytical Method:

SW846 6020

SAMPLES ARE ANALYZED BY ICP/MS

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 2 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-14 DUP

Not Specified

Sample Matrix: SOIL

	Units	Results	Date	Analyst	RL	SPEC	Limit	P/F
			Analyzed			Lo	Hi	
PCB 1016	mg/kg dry wt	ND	12/30/08	JMR	0.124			
PCB-1221	mg/kg dry wt	ND	12/30/08	JMR	0.124			
PCB-1232	mg/kg dry wt	ND	12/30/08	JMR	0.124			
PCB-1242	mg/kg dry wt	ND	12/30/08	JMR	0.124			
PCB-1248	mg/kg dry wt	ND	12/30/08	JMR	0.124			
PCB-1254	mg/kg dry wt	ND	12/30/08	JMR	0.124			
PCB-1260	mg/kg dry wt	ND	12/30/08	JMR	0.124			
PCB 1262	mg/kg dry wt	ND	12/30/08	JMR	0.124			
PCB 1268	mg/kg dry wt	ND	12/30/08	JMR	0.124			
Extraction Date PCBs		12/27/2008	12/30/08	JMR				

Analytical Method:

SW846 8081/8082

SAMPLES ARE EXTRACTED BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), CONCENTRATED, AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 3 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: EB

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date	Analyst	RL	SPEC	Limit	P/F
			Analyzed			Lo	Hi	
PCB 1016	ug/l	ND	12/29/08	JMR	0.20			
PCB-1221	ug/l	ND	12/29/08	JMR	0.20			
PCB-1232	ug/l	ND	12/29/08	JMR	0.20			
PCB-1242	ug/l	ND	12/29/08	JMR	0.20			
PCB-1248	ug/l	ND	12/29/08	JMR	0.20			
PCB-1254	ug/l	ND	12/29/08	JMR	0.20			
PCB-1260	ug/l	ND	12/29/08	JMR	0.20			
PCB 1262	ug/l	ND	12/29/08	JMR	0.20			
PCB 1268	ug/l	ND	12/29/08	JMR	0.20			
Extraction Date 608/8081/8082		12/26/2008	12/29/08	JMR				

Analytical Method:

SW846 8082

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE BY LIQUID/LIQUID EXTRACTION METHOD SW846 3510C, SOLVENT EXCHANGED WITH HEXANE, CONCENTRATED BY KUDERNA-DANISH OR TURBOVAP EVAPORATIVE METHODS, AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 4 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: EB

Sample ID: 08B50805 ‡Sampled: 12/23/2008

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Lo	Limit Hi	P/ F
Acetone	ug/l	ND	12/26/08	LBD	5.0			
Acrylonitrile	ug/l	ND	12/26/08	LBD	2.0			
tert-Amylmethyl Ether	ug/l	ND	12/26/08	LBD	0.5			
Benzene	ug/l	ND	12/26/08	LBD	0.5			
Bromobenzene	ug/l	ND	12/26/08	LBD	0.5			
Bromochloromethane	ug/l	ND	12/26/08	LBD	0.5			
Bromodichloromethane	ug/l	ND	12/26/08	LBD	0.5			
Bromoform	ug/l	ND	12/26/08	LBD	5.0			
Bromomethane	ug/l	ND	12/26/08	LBD	0.5			
2-Butanone (MEK)	ug/l	4.0	12/26/08	LBD	2.0			
tert-Butyl Alcohol	ug/l	ND	12/26/08	LBD	5.0			
n-Butylbenzene	ug/l	ND	12/26/08	LBD	0.5			
sec-Butylbenzene	ug/l	ND	12/26/08	LBD	0.5			
tert-Butylbenzene	ug/l	ND	12/26/08	LBD	0.5			
tert-Butylethyl Ether	ug/l	ND	12/26/08	LBD	0.5			
Carbon Disulfide	ug/l	ND	12/26/08	LBD	0.5			
Carbon Tetrachloride	ug/l	ND	12/26/08	LBD	0.5			
Chlorobenzene	ug/l	ND	12/26/08	LBD	0.5			
Chlorodibromomethane	ug/l	ND	12/26/08	LBD	0.5			
Chloroethane	ug/l	ND	12/26/08	LBD	1.0			
Chloroform	ug/l	ND	12/26/08	LBD	0.5			
Chloromethane	ug/l	ND	12/26/08	LBD	0.5			
2-Chlorotoluene	ug/l	ND	12/26/08	LBD	0.5			
4-Chlorotoluene	ug/l	ND	12/26/08	LBD	0.5			
1,2-Dibromo-3-Chloropropane	ug/l	ND	12/26/08	LBD	5.0			
1,2-Dibromoethane	ug/l	ND	12/26/08	LBD	0.50			
Dibromomethane	ug/l	ND	12/26/08	LBD	0.5			
1,2-Dichlorobenzene	ug/l	ND	12/26/08	LBD	0.5			
1,3-Dichlorobenzene	ug/l	ND	12/26/08	LBD	0.5			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 5 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: EB

Sample ID: 08B50805 ‡Sampled: 12/23/2008

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Lo	Limit Hi	P/ F
1,4-Dichlorobenzene	ug/l	ND	12/26/08	LBD	0.5			
trans-1,4-Dichloro-2-Butene	ug/l	ND	12/26/08	LBD	0.5			
Dichlorodifluoromethane	ug/l	ND	12/26/08	LBD	0.5			
1,1-Dichloroethane	ug/l	ND	12/26/08	LBD	0.5			
1,2-Dichloroethane	ug/l	ND	12/26/08	LBD	0.5			
1,1-Dichloroethylene	ug/l	ND	12/26/08	LBD	0.5			
cis-1,2-Dichloroethylene	ug/l	ND	12/26/08	LBD	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	12/26/08	LBD	0.5			
1,2-Dichloropropane	ug/l	ND	12/26/08	LBD	0.5			
1,3-Dichloropropane	ug/l	ND	12/26/08	LBD	0.5			
2,2-Dichloropropane	ug/l	ND	12/26/08	LBD	0.5			
1,1-Dichloropropene	ug/l	ND	12/26/08	LBD	0.5			
cis-1,3-Dichloropropene	ug/l	ND	12/26/08	LBD	0.5			
trans-1,3-Dichloropropene	ug/l	ND	12/26/08	LBD	1.0			
Diethyl Ether	ug/l	ND	12/26/08	LBD	0.5			
Diisopropyl Ether	ug/l	ND	12/26/08	LBD	0.5			
1,4-Dioxane	ug/l	ND	12/26/08	LBD	50.0			
Ethyl Benzene	ug/l	ND	12/26/08	LBD	0.5			
Hexachlorobutadiene	ug/l	ND	12/26/08	LBD	1.0			
2-Hexanone	ug/l	ND	12/26/08	LBD	2.0			
Isopropylbenzene	ug/l	ND	12/26/08	LBD	0.5			
p-Isopropyltoluene	ug/l	ND	12/26/08	LBD	0.5			
MTBE	ug/l	ND	12/26/08	LBD	0.5			
Methylene Chloride	ug/l	1.0	12/26/08	LBD	0.5			
MIBK	ug/l	ND	12/26/08	LBD	2.0			
Naphthalene	ug/l	ND	12/26/08	LBD	0.5			
n-Propylbenzene	ug/l	ND	12/26/08	LBD	0.5			
Styrene	ug/l	ND	12/26/08	LBD	0.5			
1,1,1,2-Tetrachloroethane	ug/l	ND	12/26/08	LBD	0.5			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 6 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: EB

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date	Analyst	RL	SPEC	Limit	P/F
			Analyzed			Lo	Hi	
1,1,2,2-Tetrachloroethane	ug/l	ND	12/26/08	LBD	0.5			
Tetrachloroethylene	ug/l	ND	12/26/08	LBD	0.5			
Tetrahydrofuran	ug/l	ND	12/26/08	LBD	5.0			
Toluene	ug/l	ND	12/26/08	LBD	0.5			
1,2,3-Trichlorobenzene	ug/l	ND	12/26/08	LBD	0.5			
1,2,4-Trichlorobenzene	ug/l	ND	12/26/08	LBD	0.5			
1,1,1-Trichloroethane	ug/l	ND	12/26/08	LBD	0.5			
1,1,2-Trichloroethane	ug/l	ND	12/26/08	LBD	0.5			
Trichloroethylene	ug/l	ND	12/26/08	LBD	0.5			
Trichlorofluoromethane	ug/l	ND	12/26/08	LBD	0.5			
1,2,3-Trichloropropane	ug/l	ND	12/26/08	LBD	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	12/26/08	LBD	0.5			
1,2,4-Trimethylbenzene	ug/l	ND	12/26/08	LBD	0.5			
1,3,5-Trimethylbenzene	ug/l	ND	12/26/08	LBD	0.5			
Vinyl Chloride	ug/l	ND	12/26/08	LBD	0.5			
m + p Xylene	ug/l	ND	12/26/08	LBD	1.0			
o-Xylene	ug/l	ND	12/26/08	LBD	0.5			

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS. REPORTED RESULTS AND REPORTING LIMITS FOR 1,4-DIOXANE AND TERT-BUTYLALCOHOL ARE ESTIMATED SINCE RESPONSE FACTORS FOR THESE COMPOUNDS ARE BELOW METHOD SPECIFICATIONS.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 7 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-12 DUP

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F Analyzed Lo Hi

Arsenic mg/kg dry wt 5.43 12/29/08 OP 2.74

Field Sample #: SB-29 DUP

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

Arsenic mg/kg dry wt 7.24 12/29/08 OP 2.80

Field Sample #: SB-34 2-4

Not Specified

Sample Matrix: SOIL

Units Results Date RLSPEC Limit P/F Analyst Analyzed Lo Hi Arsenic 6.26 12/29/08 OP 2.88 mg/kg dry wt

Field Sample #: SB-35 0-2

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst RL Analyst RL SPEC Limit P/ F Analyzed
 SPEC Limit P/ F Lo Hi

 Arsenic
 mg/kg dry wt 8.02
 12/29/08 OP 2.74

Field Sample #: SB-35 4-5

Sample ID: 08B50800 ‡Sampled: 12/23/2008

Not Specified

Sample Matrix: SOIL

Units Results Date SPEC Limit P/F Analyst RL Analyzed Lo Hi Arsenic 7.42 12/29/08 OP 3.12 mg/kg dry wt

RL = Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

ND = Not Detected at or above the Reporting Limit

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 8 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-36 0-2

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

Arsenic mg/kg dry wt 5.45 12/29/08 OP 2.67

Field Sample #: SB-36 2-4

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/F Analyzed Lo Hi 12/29/08 OP Arsenic mg/kg dry wt 5.57 2.89

Analytical Method: SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009 860 N. MAIN STREET EXTENSION Page 9 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-32 DUP

08B50811 ‡Sampled: 12/22/2008 Sample ID:

Not Specified

Sample Matrix: SOIL

Units SPEC Limit P/F Results Date Analyst RL Ηi

Analyzed Lo

Extractable TPH (ETPH) mg/kg dry weight 740 12/30/08 JB 240

Analytical Method:

Extractable TPH (CT ETPH)

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE AND ANALYZED BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION (GC/FID).

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 10 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: EB

Sample ID: 08B50805 ‡Sampled: 12/23/2008

Not Specified

Sample Matrix: WATER OTHER

Units RL SPEC Limit P/F Results Date Analyst Analyzed Lo Ηi Extractable TPH (ETPH) mg/l 0.108 12/30/08 JB 0.075

Analytical Method:

Extractable TPH (CT ETPH)

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE AND ANALYZED BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION (GC/FID).

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 11 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: EB

Sample ID: 08B50805 ‡Sampled: 12/23/2008

Not Specified

Sample Matrix: WATER OTHER

Units Results Date RL SPEC Limit P/F Analyst Analyzed Hi Lo Mercury mg/l ND 12/29/08 KM0.00010

Analytical Method: EPA 245.1/SW846 7470

COLD VAPOR TECHNIQUE (FLAMELESS ABSORPTION AT 254 NM)

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 12 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-16 DUP

Sample ID: 08B50809 ‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date	Analyst	RL	SPEC Limit P/ F		P/F
			Analyzed			Lo	Hi	
Antimony	mg/kg dry wt	ND	12/29/08	OP	4.60			
Arsenic	mg/kg dry wt	10.2	12/29/08	OP	2.88			
Beryllium	mg/kg dry wt	0.63	12/29/08	OP	0.29			
Cadmium	mg/kg dry wt	8.05	12/29/08	OP	0.29			
Chromium	mg/kg dry wt	644	12/29/08	OP	0.58			
Copper	mg/kg dry wt	55.4	12/29/08	OP	0.58			
Lead	mg/kg dry wt	169	12/29/08	OP	0.87			
Mercury	mg/kg dry wt	0.108	12/29/08	KM	0.016			
Nickel	mg/kg dry wt	76.7	12/29/08	OP	0.58			
Selenium	mg/kg dry wt	ND	12/29/08	OP	5.75			
Silver	mg/kg dry wt	ND	12/29/08	OP	0.58			
Thallium	mg/kg dry wt	ND	12/29/08	OP	3.45			
Zinc	mg/kg dry wt	131	12/29/08	OP	1.15			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 13 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Date Received: 12/24/2008
Analytical Method: Antimony

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY

INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Arsenic

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Beryllium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Cadmium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Chromium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Copper

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Lead SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Mercury

SW846 3050/7471

SAMPLES ARE DIGESTED WITH ACIDS AND THEN ANALYZED BY COLD VAPOR (FLAMELESS) ATOMIC ABSORPTION SPECTROPHOTOMETRY

Analytical Method: Nickel

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Selenium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

RL = Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to

ND = Not Detected at or above the Reporting Limit determine PASS (P) or FAIL (F) condition of results.

NM = Not Measured

* = See end of report for comments and notes applying to this sample

= See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 14 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Date Received: 12/24/200
Analytical Method: Silver

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Thallium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Zinc SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 15 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-30 DUP

Not Specified

Sample Matrix: SOIL

Units RL SPEC Limit P/F Results Date Analyst Analyzed Lo Ηi Lead mg/kg dry wt 46.2 12/29/08 OP 0.87

Analytical Method: SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009 860 N. MAIN STREET EXTENSION Page 16 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297 Date Received:

12/24/2008 Job Number: 60045450.04

Field Sample #: PCB WIPE 1

Sample ID: 08B50803 ‡Sampled: 12/23/2008

Not Specified

WIPE - OTHER Sample Matrix:

	Units	Results	Date Analyzed	Analyst	RL	SPEC Lo	Limit Hi	P/ F
PCB-1221	ug	ND	12/29/08	JMR	0.200			
PCB-1232	ug	ND	12/29/08	JMR	0.200			
PCB-1242	ug	ND	12/29/08	JMR	0.200			
PCB-1248	ug	ND	12/29/08	JMR	0.200			
PCB-1254	ug	ND	12/29/08	JMR	0.200			
PCB-1260	ug	ND	12/29/08	JMR	0.200			

Field Sample #: PCB WIPE 1 DUP

Sample ID: 08B50804 **\$Sampled: 12/23/2008**

Not Specified

Sample Matrix: WIPE - OTHER

	Units	Results	Date	Analyst	RL	SPEC Limit		P/F
			Analyzed			Lo	Hi	
PCB-1221	ug	ND	12/29/08	JMR	0.200			
PCB-1232	ug	ND	12/29/08	JMR	0.200			
PCB-1242	ug	ND	12/29/08	JMR	0.200			
PCB-1248	ug	ND	12/29/08	JMR	0.200			
PCB-1254	ug	ND	12/29/08	JMR	0.200			
PCB-1260	ug	ND	12/29/08	JMR	0.200			

Analytical Method:

SW846 8082

SAMPLES ARE EXTRACTED INTO HEXANE AND ANALYZED BY CAPILLARY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 17 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-12 DUP

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F Analyzed Lo Hi

Solids, total % 91.3 12/29/08 TGT

Field Sample #: SB-14 DUP

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F Analyzed Lo Hi

Solids, total % 81.3 12/29/08 TGT

Field Sample #: SB-16 DUP

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst
 RL
 SPEC Limit
 P/ F

 Analyzed
 Lo
 Hi

 Solids, total
 %
 87.1
 12/29/08
 TGT

Field Sample #: SB-29 DUP

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst RL Analyst RL SPEC Limit P/ F Lo Hi

 Solids, total
 %
 89.3
 12/29/08 TGT

Field Sample #: SB-30 DUP

Sample ID: 08B50806 ‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst RL
 SPEC Limit P/ F Lo
 P/ F Lo

 Solids, total
 %
 86.4
 12/29/08
 TGT

RL = Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

ND = Not Detected at or above the Reporting Limit

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 18 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-32 DUP

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

Solids, total % 85.1 12/29/08 TGT

Field Sample #: SB-34 2-4

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F Analyzed Lo Hi

Solids, total % 87.1 12/29/08 TGT

Field Sample #: SB-35 0-2

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst RL Analyst RL SPEC Limit P/ F Analyzed
 P/ F Lo Hi

 Solids, total
 %
 91.3
 12/29/08 TGT

Field Sample #: SB-35 4-5

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst RL Analyst RL Analyst RL Analyzed
 SPEC Limit P/F Lo Hi

 Solids, total
 %
 80.3
 12/29/08 TGT

Field Sample #: SB-36 0-2

Sample ID: 08B50801 ‡Sampled: 12/23/2008

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst RL Analyst RL Analyst RL Analyzed
 SPEC Limit P/ F Lo Hi

 Solids, total
 %
 93.9
 12/29/08 TGT

RL = Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

ND = Not Detected at or above the Reporting Limit

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 19 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

Field Sample #: SB-36 2-4

Sample ID: 08B50802 ‡Sampled: 12/23/2008

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst RL Analyst RL Analyst RL Analyzed
 SPEC Limit P/ F Lo Hi

 Solids, total
 %
 86.7
 12/29/08 TGT

Analytical Method:

SM 2540G

PERCENT OF SAMPLE REMAINING AFTER DRYING OVERNIGHT AT 103-105 DEGREES CENTIGRADE.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to

determine PASS (P) or FAIL (F) condition of results.

NM = Not Measured

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SEREMET

METCALF & EDDY - WALLINGFORD 1/5/2009
860 N. MAIN STREET EXTENSION Page 20 of 20

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT LIMS-BAT #: LIMT-22297

Date Received: 12/24/2008 Job Number: 60045450.04

** END OF REPORT **

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009	Lims Bat #: LIMT-22297	Page 1 o		1 of 22
QC Batch Number	er: BATCH-15777				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
8B50805					
	Silver	Sample Amount	<2.50	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	501.30	ug/L	
		Matrix Spike % Rec.	100.26	%	75-125
	Arsenic	Sample Amount	<2.00	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	498.00	ug/L	
		Matrix Spike % Rec.	99.60	%	75-125
	Beryllium	Sample Amount	<2.00	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	493.74	ug/L	
		Matrix Spike % Rec.	98.74	%	75-125
	Cadmium	Sample Amount	<2.50	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	533.26	ug/L	
		Matrix Spike % Rec.	106.65	%	75-125
	Chromium	Sample Amount	<50.0	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	526.33	ug/L	
		Matrix Spike % Rec.	105.26	%	75-125
	Copper	Sample Amount	<25.0	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	536.74	ug/L	
		Matrix Spike % Rec.	107.34	%	75-125
	Nickel	Sample Amount	<25.0	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	531.06	ug/L	
		Matrix Spike % Rec.	106.21	%	75-125
	Lead	Sample Amount	<5.00	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	531.42	ug/L	
		Matrix Spike % Rec.	106.28	%	75-125
	Antimony	Sample Amount	<5.00	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	514.54	ug/L	
		Matrix Spike % Rec.	102.90	%	75-125
	Selenium	Sample Amount	<25.0	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	522.51	ug/L	
		Matrix Spike % Rec.	104.50	%	75-125
	Thallium	Sample Amount	<1.00	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	494.50	ug/L	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009 Lims Bat # : LIMT-22297		Page 2 of 22		
QC Batch Number	er: BATCH-15777				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50805					
	Thallium	Matrix Spike % Rec.	98.90	%	75-125
	Zinc	Sample Amount	<100.	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	680.63	ug/L	
		Matrix Spike % Rec.	136.12	%	75-125
BLANK-128105					
	Silver	Blank	<2.50	ug/L	
	Arsenic	Blank	<2.00	ug/L	
	Beryllium	Blank	<2.00	ug/L	
	Cadmium	Blank	<2.50	ug/L	
	Chromium	Blank	<50.0	ug/L	
	Copper	Blank	<25.0	ug/L	
	Nickel	Blank	<25.0	ug/L	
	Lead	Blank	<5.00	ug/L	
	Antimony	Blank	<5.00	ug/L	
	Selenium	Blank	<25.0	ug/L	
	Thallium	Blank	<1.00	ug/L	
	Zinc	Blank	<100.	ug/L	
LFBLANK-90117	•				
	Silver	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	512.29	ug/L	
		Lab Fort Blk. % Rec.	102.46	%	80-120
	Arsenic	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	508.50	ug/L	
		Lab Fort Blk. % Rec.	101.70	%	80-120
	Beryllium	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	469.16	ug/L	
		Lab Fort Blk. % Rec.	93.83	%	80-120
	Cadmium	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	506.62	ug/L	
		Lab Fort Blk. % Rec.	101.32	%	80-120
	Chromium	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	505.26	ug/L	
		Lab Fort Blk. % Rec.	101.05	%	80-120
	Copper	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	517.11	ug/L	
		Lab Fort Blk. % Rec.	103.42	%	80-120
	Nickel	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	516.91	ug/L	
		Lab Fort Blk. % Rec.	103.38	%	80-120
	Lead	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	513.09	ug/L	
		Lab Fort Blk. % Rec.	102.61	%	80-120



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009	Lims Bat #: LIMT-22297		3 of 22	
QC Batch Numb	oer: BATCH-15777				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-9011	7				
	Antimony	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	498.05	ug/L	
		Lab Fort Blk. % Rec.	99.61	%	80-120
	Selenium	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	497.94	ug/L	
		Lab Fort Blk. % Rec.	99.58	%	80-120
	Thallium	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	463.86	ug/L	
		Lab Fort Blk. % Rec.	92.77	%	80-120
	Zinc	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	782.75	ug/L	
		Lab Fort Blk. % Rec.	156.55	%	80-120



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009	Lims Bat #: LIMT-22297	Page 4 of 22		: LIMT-22297 Page 4 of 22		4 of 22
QC Batch Number	er: GC/ECD-12048						
Sample Id	Analysis	QC Analysis	Values	Units	Limits		
08B50805							
	Decachlorobiphenyl	Surrogate Recovery	56.6	%	30-150		
	Tetrachloro-m-Xylene	Surrogate Recovery	79.2	%	30-150		
BLANK-128107							
	PCB-1232	Blank	<0.20	ug/l			
	PCB-1242	Blank	<0.20	ug/l			
	PCB-1254	Blank	<0.20	ug/l			
	PCB-1260	Blank	< 0.20	ug/l			
	PCB-1248	Blank	<0.20	ug/l			
	PCB-1221	Blank	< 0.20	ug/l			
	PCB 1016	Blank	< 0.20	ug/l			
	PCB 1262	Blank	<0.20	ug/l			
	PCB 1268	Blank	<0.20	ug/l			
LFBLANK-90119							
	PCB-1260	Lab Fort Blank Amt.	0.50	ug/l			
		Lab Fort Blk. Found	0.45	ug/l			
		Lab Fort Blk. % Rec.	91.80	%	40-140		
		Dup Lab Fort BI Amt.	0.50	ug/l			
		Dup Lab Fort Bl. Fnd	0.46	ug/l			
		Dup Lab Fort BI %Rec	93.40	%			
		Lab Fort Blank Range	1.60	units			
		Lab Fort Bl. Av. Rec	92.60	%			
		LFB Duplicate RPD	1.72	%	0-20		
	PCB 1016	Lab Fort Blank Amt.	0.50	ug/l			
		Lab Fort Blk. Found	0.50	ug/l			
		Lab Fort Blk. % Rec.	101.60	%	40-140		
		Dup Lab Fort BI Amt.	0.50	ug/l			
		Dup Lab Fort Bl. Fnd	0.59	ug/l			
		Dup Lab Fort BI %Rec	119.40	%			
		Lab Fort Blank Range	17.80	units			
		Lab Fort Bl. Av. Rec	110.50	%			
		LFB Duplicate RPD	16.10	%	0-20		



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009	Lims Bat #: LIMT-22297	Page 5 of 22		
QC Batch Numb	per: GC/ECD-12049				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50803					
	Decachlorobiphenyl	Surrogate Recovery	83.4	%	30-150
	Tetrachloro-m-Xylene	Surrogate Recovery	86.1	%	30-150
08B50804					
	Decachlorobiphenyl	Surrogate Recovery	86.9	%	30-150
	Tetrachloro-m-Xylene	Surrogate Recovery	87.6	%	30-150
BLANK-128106					
	PCB-1232	Blank	<0.200	ug	
	PCB-1242	Blank	<0.200	ug	
	PCB-1254	Blank	<0.200	ug	
	PCB-1260	Blank	<0.200	ug	
	PCB-1248	Blank	<0.200	ug	
	PCB-1221	Blank	<0.200	ug	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009	Lims Bat #: LIMT-22297 Page 6 of			f 22	
QC Batch Numbe	er: GC/ECD-12053					
Sample Id	Analysis	QC Analysis	Values	Units	Limits	
08B50808						
	Decachlorobiphenyl	Surrogate Recovery	70.0	%	30-150	
	Tetrachloro-m-Xylene	Surrogate Recovery	102.7	%	30-150	
BLANK-128145						
	PCB-1232	Blank	<0.100	mg/kg dry wt		
	PCB-1242	Blank	<0.100	mg/kg dry wt		
	PCB-1254	Blank	<0.100	mg/kg dry wt		
	PCB-1260	Blank	<0.100	mg/kg dry wt		
	PCB-1248	Blank	<0.100	mg/kg dry wt		
	PCB-1221	Blank	<0.100	mg/kg dry wt		
	PCB 1016	Blank	<0.100	mg/kg dry wt		
	PCB 1262	Blank	<0.100	mg/kg dry wt		
	PCB 1268	Blank	<0.100	mg/kg dry wt		
FBLANK-90162						
	PCB-1260	Lab Fort Blank Amt.	0.200	mg/kg dry wt		
		Lab Fort Blk. Found	0.209	mg/kg dry wt		
		Lab Fort Blk. % Rec.	104.750	%	40-140	
		Dup Lab Fort BI Amt.	0.200	mg/kg dry wt		
		Dup Lab Fort Bl. Fnd	0.171	mg/kg dry wt		
		Dup Lab Fort BI %Rec	85.500	%		
		Lab Fort Blank Range	19.250	units		
		Lab Fort Bl. Av. Rec	95.125	%		
		LFB Duplicate RPD	20.236	%	0-30	
	PCB 1016	Lab Fort Blank Amt.	0.200	mg/kg dry wt		
		Lab Fort Blk. Found	0.184	mg/kg dry wt		
		Lab Fort Blk. % Rec.	92.250	%	40-140	
		Dup Lab Fort Bl Amt.	0.200	mg/kg dry wt		
		Dup Lab Fort Bl. Fnd	0.198	mg/kg dry wt		
		Dup Lab Fort Bl %Rec	99.250	%		
		Lab Fort Blank Range	7.000	units		
		Lab Fort Bl. Av. Rec	95.750	%		
		LFB Duplicate RPD	7.310	%	0-30	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009	Lims Bat #: LIMT-22297	Page 7 of 22		
QC Batch Number	: GC/FID-22889				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50805					
	Terphenyl	Surrogate Recovery	81.0	%	50-150
BLANK-128191					
	Extractable TPH (ETPH)	Blank	< 0.075	mg/l	
LFBLANK-90214					
	Extractable TPH (ETPH)	Lab Fort Blank Amt.	1.000	mg/l	
		Lab Fort Blk. Found	0.745	mg/l	
		Lab Fort Blk. % Rec.	74.500	%	60-120
		Dup Lab Fort Bl Amt.	1.000	mg/l	
		Dup Lab Fort Bl. Fnd	0.741	mg/l	
		Dup Lab Fort Bl %Rec	74.100	%	
		Lab Fort Blank Range	0.400	units	
		Lab Fort Bl. Av. Rec	74.300	%	
		LFB Duplicate RPD	0.538	%	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009	Lims Bat #: LIMT-22297	Page 8 of 22		
QC Batch Number	·: GC/FID-22891				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50811					
	Terphenyl	Surrogate Recovery	N.M.	%	50-150
BLANK-128204					
	Extractable TPH (ETPH)	Blank	<10.0	mg/kg dry weig	
LFBLANK-90226					
	Extractable TPH (ETPH)	Lab Fort Blank Amt.	33.3	mg/kg dry weig	
		Lab Fort Blk. Found	23.0	mg/kg dry weig	
		Lab Fort Blk. % Rec.	69.1	%	60-120
		Dup Lab Fort Bl Amt.	33.3	mg/kg dry weig	
		Dup Lab Fort Bl. Fnd	21.7	mg/kg dry weig	
		Dup Lab Fort Bl %Rec	65.2	%	
		Lab Fort Blank Range	3.9	units	
		Lab Fort Bl. Av. Rec	67.1	%	
		LFB Duplicate RPD	5.8	%	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009 Lims E	#: LIMT-22297 Pa		Page 9	age 9 of 22	
QC Batch Number	r: GCMS/VOL-21235					
Sample Id	Analysis	QC Analysis	Values	Units	Limits	
08B50805						
	1,2-Dichloroethane-d4	Surrogate Recovery	100.4	%	70-130	
	Toluene-d8	Surrogate Recovery	99.6	%	70-130	
	Bromofluorobenzene	Surrogate Recovery	101.5	%	70-130	
BLANK-128170						
	Acetone	Blank	<5.0	ug/l		
	Benzene	Blank	<0.5	ug/l		
	Carbon Tetrachloride	Blank	<0.5	ug/l		
	Chloroform	Blank	<0.5	ug/l		
	1,2-Dichloroethane	Blank	<0.5	ug/l		
	1,4-Dichlorobenzene	Blank	<0.5	ug/l		
	Ethyl Benzene	Blank	<0.5	ug/l		
	2-Butanone (MEK)	Blank	<2.0	ug/l		
	MIBK	Blank	<2.0	ug/l		
	Naphthalene	Blank	<0.5	ug/l		
	Styrene	Blank	<0.5	ug/l		
	Tetrachloroethylene	Blank	<0.5	ug/l		
	Toluene	Blank	<0.5	ug/l		
	1,1,1-Trichloroethane	Blank	<0.5	ug/l		
	Trichloroethylene	Blank	<0.5	ug/l		
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.5	ug/l		
	Trichlorofluoromethane	Blank	<0.5	ug/l		
	o-Xylene	Blank	<0.5	ug/l		
	m + p Xylene	Blank	<1.0	ug/l		
	1,2-Dichlorobenzene	Blank	<0.5	ug/l		
	1,3-Dichlorobenzene	Blank	<0.5	ug/l		
	1,1-Dichloroethane	Blank	<0.5	ug/l		
	1,1-Dichloroethylene	Blank	<0.5	ug/l		
	1,4-Dioxane	Blank	<50.0	ug/l		
	MTBE	Blank	<0.5	ug/l		
	trans-1,2-Dichloroethylene	Blank	<0.5	ug/l		
	Vinyl Chloride	Blank	<0.5	ug/l		
	Methylene Chloride	Blank	<0.5	ug/l		
	Chlorobenzene	Blank	<0.5	ug/l		
	Chloromethane	Blank	<0.5	ug/l		
	Bromomethane	Blank	<0.5	ug/l		
	Chloroethane	Blank	<1.0	ug/l		
	cis-1,3-Dichloropropene	Blank	<0.5	ug/l		
	trans-1,3-Dichloropropene	Blank	<1.0	ug/l		
	Chlorodibromomethane	Blank	<0.5	ug/l		
	1,1,2-Trichloroethane	Blank	<0.5	ug/l		
	Bromoform	Blank	<5.0	ug/l		
	1,1,2,2-Tetrachloroethane	Blank	<0.5	ug/l		
	2-Chlorotoluene	Blank	<0.5	ug/l		



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009	Lims Bat #: LIMT-22297		Page	10 of 22
QC Batch Number:	GCMS/VOL-21235				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-128170					
	Hexachlorobutadiene	Blank	<1.0	ug/l	
	Isopropylbenzene	Blank	<0.5	ug/l	
	p-Isopropyltoluene	Blank	<0.5	ug/l	
	n-Propylbenzene	Blank	<0.5	ug/l	
	sec-Butylbenzene	Blank	<0.5	ug/l	
	tert-Butylbenzene	Blank	<0.5	ug/l	
	1,2,3-Trichlorobenzene	Blank	<0.5	ug/l	
	1,2,4-Trichlorobenzene	Blank	<0.5	ug/l	
	1,2,4-Trimethylbenzene	Blank	<0.5	ug/l	
	1,3,5-Trimethylbenzene	Blank	<0.5	ug/l	
	Dibromomethane	Blank	<0.5	ug/l	
	cis-1,2-Dichloroethylene	Blank	<0.5	ug/l	
	4-Chlorotoluene	Blank	<0.5	ug/l	
	1,1-Dichloropropene	Blank	<0.5	ug/l	
	1,2-Dichloropropane	Blank	<0.5	ug/l	
	1,3-Dichloropropane	Blank	<0.5	ug/l	
	2,2-Dichloropropane	Blank	<0.5	ug/l	
	1,1,1,2-Tetrachloroethane	Blank	<0.5	ug/l	
	1,2,3-Trichloropropane	Blank	<0.5	ug/l	
	n-Butylbenzene	Blank	<0.5	ug/l	
	Dichlorodifluoromethane	Blank	<0.5	ug/l	
	Bromochloromethane	Blank	<0.5	ug/l	
	Bromobenzene	Blank	<0.5	ug/l	
	Acrylonitrile	Blank	<2.0	ug/l	
	Carbon Disulfide	Blank	<0.5	ug/l	
	2-Hexanone	Blank	<2.0	ug/l	
	trans-1,4-Dichloro-2-Butene	Blank	<0.5	ug/l	
	Diethyl Ether	Blank	<0.5	ug/l	
	Bromodichloromethane	Blank	<0.5	ug/l	
	1,2-Dibromo-3-Chloropropane	Blank	<5.0	ug/l	
	1,2-Dibromoethane	Blank	<0.50	ug/l	
	Tetrahydrofuran	Blank	<5.0	ug/l	
	tert-Butyl Alcohol	Blank	<5.0	ug/l	
	Diisopropyl Ether	Blank	<0.5	ug/l	
	tert-Butylethyl Ether	Blank	<0.5	ug/l	
	tert-Amylmethyl Ether	Blank	<0.5	ug/l	
FBLANK-90191			3.0		
	Acetone	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	106.8	ug/l	
		Lab Fort Blk. % Rec.	106.8	%	70-160
	Benzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.7	%	70-130



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009 L	ims Bat #: LIMT-22297	Page 11 of 22		
QC Batch Numbe	er: GCMS/VOL-21235				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
FBLANK-90191					
	Carbon Tetrachloride	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.9	%	70-130
	Chloroform	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.1	ug/l	
		Lab Fort Blk. % Rec.	91.9	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.4	ug/l	
		Lab Fort Blk. % Rec.	104.5	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.2	%	70-130
	Ethyl Benzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.3	ug/l	
		Lab Fort Blk. % Rec.	103.2	%	70-130
	2-Butanone (MEK)	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	119.1	ug/l	
		Lab Fort Blk. % Rec.	119.1	%	40-160
	MIBK	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	115.0	ug/l	
		Lab Fort Blk. % Rec.	115.0	%	70-160
	Naphthalene	Lab Fort Blank Amt.	10.0	ug/l	
	·	Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.7	%	40-130
	Styrene	Lab Fort Blank Amt.	10.0	ug/l	
	•	Lab Fort Blk. Found	10.2	ug/l	
		Lab Fort Blk. % Rec.	102.5	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
	•	Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.5	%	70-160
	Toluene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.3	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.8	ug/l	
		Lab Fort Blk. % Rec.	98.4	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
	•	Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.2	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroetha		10.0	ug/l	
	, , , , , , , , , , , , , , , , , , ,	Lab Fort Blk. Found	10.4	ug/l	
		Lab Fort Blk. % Rec.	104.0	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	10.0	ug/l	
	omoromadiomidina	Edd i oft Diamit / tint.	10.0	~9 [,] ·	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009	Lims Bat #: LIMT-22297	Page 12 of 22		
C Batch Number	r: GCMS/VOL-21235				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
FBLANK-90191					
	Trichlorofluoromethane	Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.7	%	70-130
	o-Xylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.9	%	70-130
	m + p Xylene	Lab Fort Blank Amt.	20.0	ug/l	
		Lab Fort Blk. Found	20.2	ug/l	
		Lab Fort Blk. % Rec.	101.3	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.2	ug/l	
		Lab Fort Blk. % Rec.	102.6	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.5	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.1	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
	·	Lab Fort Blk. Found	9.3	ug/l	
		Lab Fort Blk. % Rec.	93.7	%	70-130
	1,4-Dioxane	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	86.7	ug/l	
		Lab Fort Blk. % Rec.	86.7	%	40-130
	MTBE	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.3	ug/l	
		Lab Fort Blk. % Rec.	113.1	%	70-130
	trans-1,2-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
	•	Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.7	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	10.0	ug/l	
	•	Lab Fort Blk. Found	8.7	ug/l	
		Lab Fort Blk. % Rec.	87.1	%	40-160
	Methylene Chloride	Lab Fort Blank Amt.	10.0	ug/l	
	,	Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.0	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
	-	Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.4	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.0	ug/l	. 5 . 5 .
		Lab Fort Blk. Found	9.0	ug/l	
		Lab Fort Blk. % Rec.	90.2	%	40-160
	Bromomethane	Lab Fort Blank Amt.	10.0	ug/l	. 3 . 6 6
		Last . Ort Blank / witt.	5.8	~g··	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009	Lims Bat #: LIMT-22297		Page	13 of 22
QC Batch Number	er: GCMS/VOL-21235				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
FBLANK-90191					
	Bromomethane	Lab Fort Blk. % Rec.	58.5	%	40-160
	Chloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.8	ug/l	
		Lab Fort Blk. % Rec.	88.5	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.4	ug/l	
		Lab Fort Blk. % Rec.	114.0	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.3	ug/l	
		Lab Fort Blk. % Rec.	103.9	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.9	ug/l	
		Lab Fort Blk. % Rec.	89.7	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
	•	Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.9	%	70-130
	Bromoform	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk, Found	10.3	ug/l	
		Lab Fort Blk. % Rec.	103.3	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	10.0	ug/l	
	, , ,	Lab Fort Blk. Found	10.8	ug/l	
		Lab Fort Blk. % Rec.	108.5	%	70-130
	2-Chlorotoluene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.9	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.1	%	70-130
	Isopropylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.4	ug/l	
		Lab Fort Blk. % Rec.	114.1	%	70-130
	p-Isopropyltoluene	Lab Fort Blank Amt.	10.0	ug/l	70 100
	propropyriolaerie	Lab Fort Blk. Found	10.2	ug/l	
		Lab Fort Blk. % Rec.	102.2	%	70-130
	n-Propylbenzene	Lab Fort Blank Amt.	10.0	ug/l	70 100
	11-1 Topyiberizerie	Lab Fort Blk. Found	10.1		
		Lab Fort Blk. % Rec.	101.5	ug/l %	70-130
	sec-Butylbenzene	Lab Fort Blank Amt.	101.5		70-130
	360-Dutyiberizerie	Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.1	ug/l %	70-130
	tort Butulhanzana	Lab Fort Blk. % Rec. Lab Fort Blank Amt.			70-130
	tert-Butylbenzene		10.0	ug/l	
		Lab Fort Blk. Found	9.9	ug/l	70.400
		Lab Fort Blk. % Rec.	99.4	%	70-130



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009	Lims Bat #: LIMT-22297		Page	14 of 22
QC Batch Number	: GCMS/VOL-21235				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
_FBLANK-90191					
	1,2,3-Trichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.8	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.6	ug/l	
		Lab Fort Blk. % Rec.	106.9	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.8	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.3	ug/l	
		Lab Fort Blk. % Rec.	103.2	%	70-130
	Dibromomethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.5	ug/l	
		Lab Fort Blk. % Rec.	105.5	%	70-130
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
	-	Lab Fort Blk. Found	9.8	ug/l	
		Lab Fort Blk. % Rec.	98.9	%	70-130
	4-Chlorotoluene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.2	ug/l	
		Lab Fort Blk. % Rec.	102.4	%	70-130
	1,1-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.0	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.7	%	70-130
	1,3-Dichloropropane	Lab Fort Blank Amt.	10.0	ug/l	
	, , ,	Lab Fort Blk. Found	10.5	ug/l	
		Lab Fort Blk. % Rec.	105.6	%	70-130
	2,2-Dichloropropane	Lab Fort Blank Amt.	10.0	ug/l	
	, , ,	Lab Fort Blk. Found	11.1	ug/l	
		Lab Fort Blk. % Rec.	111.9	%	40-130
	1,1,1,2-Tetrachloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.8	ug/l	
		Lab Fort Blk. % Rec.	88.3	%	70-130
	1,2,3-Trichloropropane	Lab Fort Blank Amt.	10.0	ug/l	
	· · · · · · · · · · · · · · · · · · ·	Lab Fort Blk. Found	9.8	ug/l	
		Lab Fort Blk. % Rec.	98.0	%	70-130
	n-Butylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.9	ug/l	
		Lab Fort Blk. % Rec.	99.6	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	10.0	ug/l	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009	Lims Bat #: LIMT-22297		Page	15 of 22
QC Batch Number	GCMS/VOL-21235				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
FBLANK-90191					
	Dichlorodifluoromethane	Lab Fort Blk. Found	10.5	ug/l	
		Lab Fort Blk. % Rec.	105.1	%	40-160
	Bromochloromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.4	ug/l	
		Lab Fort Blk. % Rec.	104.0	%	70-130
	Bromobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.2	ug/l	
		Lab Fort Blk. % Rec.	102.9	%	70-130
	Acrylonitrile	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.2	ug/l	
		Lab Fort Blk. % Rec.	102.5	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.1	ug/l	
		Lab Fort Blk. % Rec.	111.8	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	105.8	ug/l	
		Lab Fort Blk. % Rec.	105.8	%	70-160
	trans-1,4-Dichloro-2-Butene	Lab Fort Blank Amt.	10.0	ug/l	
	•	Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.6	%	70-130
	Diethyl Ether	Lab Fort Blank Amt.	10.0	ug/l	
	•	Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.9	%	70-130
	Bromodichloromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.5	%	70-130
	1,2-Dibromo-3-Chloropropane	Lab Fort Blank Amt.	10.0	ug/l	
	,	Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.3	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	10.00	ug/l	
	,	Lab Fort Blk. Found	10.88	ug/l	
		Lab Fort Blk. % Rec.	108.80	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	10.0	ug/l	
	,	Lab Fort Blk. Found	10.3	ug/l	
		Lab Fort Blk. % Rec.	103.5	%	70-130
	tert-Butyl Alcohol	Lab Fort Blank Amt.	100.0	ug/l	
	•	Lab Fort Blk. Found	104.5	ug/l	
		Lab Fort Blk. % Rec.	104.5	%	40-160
	Diisopropyl Ether	Lab Fort Blank Amt.	10.0	ug/l	
	1 17	Lab Fort Blk. Found	10.3	ug/l	
		Lab Fort Blk. % Rec.	103.9	%	70-130
	tert-Butylethyl Ether	Lab Fort Blank Amt.	10.0	ug/l	
	, , <u></u>	Lab Fort Blk. Found	11.0	ug/l	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009	Lims Bat #: LIMT-22297		Page	16 of 22	
QC Batch Number: GCMS/VOL-21235						
Sample Id	Analysis	QC Analysis	Values	Units	Limits	
LFBLANK-90191						
	tert-Butylethyl Ether	Lab Fort Blk. % Rec.	110.6	%	70-160	
	tert-Amylmethyl Ether	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	10.0	ug/l		
		Lab Fort Blk. % Rec.	100.2	%	70-130	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009	Lims Bat #: LIMT-22297		Page	17 of 22	
QC Batch Number: HG-9749						
Sample Id	Analysis	QC Analysis	Values	Units	Limits	
08B50805						
	Mercury	Sample Amount	<0.00010	mg/l		
		Matrix Spk Amt Added	0.00200	mg/l		
		MS Amt Measured	0.00190	mg/l		
		Matrix Spike % Rec.	95.10000	%	75-125	
BLANK-128089						
	Mercury	Blank	<0.00010	mg/l		
LFBLANK-90100						
	Mercury	Lab Fort Blank Amt.	0.00200	mg/l		
		Lab Fort Blk. Found	0.00206	mg/l		
		Lab Fort Blk. % Rec.	103.10000	%	85-115	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009	Lims Bat #: LIMT-22297		Page 18 o	f 22
QC Batch Number: HG-9750					
Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-128090					
	Mercury	Blank	<0.025	mg/kg dry wt	
LFBLANK-90101					
	Mercury	Lab Fort Blank Amt.	1.250	mg/kg dry wt	
		Lab Fort Blk. Found	1.202	mg/kg dry wt	
		Lab Fort Blk. % Rec.	96.167	%	65.9-133



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/5/2009	Lims Bat #: LIMT-22297		Page 19 o	1 22
QC Batch Num					
Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50801					
	Arsenic	Sample Amount	5.45	mg/kg dry wt	
		Duplicate Value	9.10	mg/kg dry wt	
		Duplicate RPD	50.22	%	0-35
		Sample Amount	5.45	mg/kg dry wt	
		Matrix Spk Amt Added	26.62	mg/kg dry wt	
		MS Amt Measured	31.60	mg/kg dry wt	
		Matrix Spike % Rec.	98.24	%	75-125
BLANK-128150					
	Silver	Blank	<0.50	mg/kg dry wt	
	Arsenic	Blank	<2.50	mg/kg dry wt	
	Beryllium	Blank	<0.25	mg/kg dry wt	
	Cadmium	Blank	<0.25	mg/kg dry wt	
	Chromium	Blank	<0.50	mg/kg dry wt	
	Copper	Blank	<0.50	mg/kg dry wt	
	Nickel	Blank	<0.50	mg/kg dry wt	
	Lead	Blank	<0.75	mg/kg dry wt	
	Antimony	Blank	<4.00	mg/kg dry wt	
	Selenium	Blank	<5.00	mg/kg dry wt	
	Thallium	Blank	<3.00	mg/kg dry wt	
	Zinc	Blank	<1.00	mg/kg dry wt	
_FBLANK-901					
	Silver	Lab Fort Blank Amt.	81.20	mg/kg dry wt	
		Lab Fort Blk. Found	65.55	mg/kg dry wt	
		Lab Fort Blk. % Rec.	80.72	%	66-133
	Arsenic	Lab Fort Blank Amt.	133.00	mg/kg dry wt	
		Lab Fort Blk. Found	119.21	mg/kg dry wt	
		Lab Fort Blk. % Rec.	89.63	%	80-120
	Beryllium	Lab Fort Blank Amt.	117.00	mg/kg dry wt	
		Lab Fort Blk. Found	106.55	mg/kg dry wt	
		Lab Fort Blk. % Rec.	91.06	%	84-116
	Cadmium	Lab Fort Blank Amt.	103.00	mg/kg dry wt	
		Lab Fort Blk. Found	92.53	mg/kg dry wt	
		Lab Fort Blk. % Rec.	89.83	%	83-117
	Chromium	Lab Fort Blank Amt.	219.00	mg/kg dry wt	
		Lab Fort Blk. Found	211.08	mg/kg dry wt	
		Lab Fort Blk. % Rec.	96.38	%	82-118
	Copper	Lab Fort Blank Amt.	155.00	mg/kg dry wt	
		Lab Fort Blk. Found	155.79	mg/kg dry wt	
		Lab Fort Blk. % Rec.	100.50	%	83-117
	Nickel	Lab Fort Blank Amt.	119.00	mg/kg dry wt	
		Lab Fort Blk. Found	108.66	mg/kg dry wt	
		Lab Fort Blk. % Rec.	91.31	%	80-120
	Lead	Lab Fort Blank Amt.	165.00	mg/kg dry wt	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Values	Units	Limits
Values	Units	Limits
nd 138.81	mg/kg dry wt	
ec. 84.12	%	82-118
nt. 79.20	mg/kg dry wt	
nd 73.73	mg/kg dry wt	
ec. 93.10	%	30-207
nt. 94.10	mg/kg dry wt	
nd 86.55	mg/kg dry wt	
ec. 91.97	%	77-123
nt. 152.00	mg/kg dry wt	
nd 137.56	mg/kg dry wt	
ec. 90.50	%	82-120
nt. 280.00	mg/kg dry wt	
nd 252.43	mg/kg dry wt	
ec. 90.15	%	81-119
	ec. 84.12 nt. 79.20 nd 73.73 ec. 93.10 nt. 94.10 nd 86.55 ec. 91.97 nt. 152.00 nd 137.56 ec. 90.50 nt. 280.00 nd 252.43	ec. 84.12 % nt. 79.20 mg/kg dry wt nd 73.73 mg/kg dry wt ec. 93.10 % nt. 94.10 mg/kg dry wt nd 86.55 mg/kg dry wt ec. 91.97 % nt. 152.00 mg/kg dry wt nd 137.56 mg/kg dry wt nd 137.56 mg/kg dry wt ec. 90.50 % nt. 280.00 mg/kg dry wt nd 252.43 mg/kg dry wt



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/5/2009 Lims Bat #: LIMT-22297 Page 21 of 22

NOTES:

QC Batch No. : GC/FID-22891
Sample ID : 08B50811
Analysis : Terphenyl

SURROGATE CONCENTRATION BELOW DETECTION LIMIT DUE TO DILUTION REQUIRED

FOR SAMPLE ANALYSIS.



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/5/2009 Lims Bat #: LIMT-22297 Page 22 of 22

OUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

This is the number assigned to all samples analyzed together that QC BATCH NUMBER

would be subject to comparison with a particular set of Quality

Control Data.

Upper and Lower Control Limits for the QC ANALYSIS Reported. All LIMITS

values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY

REPORT. Not all QC results will have Limits defined.

Sample Amount Amount of analyte found in a sample.

Method Blank that has been taken though all the steps of the Blank

an alysis.

LFBLANK Laboratory Fortified Blank (a control sample)

STDADD Standard Added (a laboratory control sample)

Matrix Spk Amt Added

Amount of analyte spiked into a sample Amount of analyte found including amount that was spiked MS Amt Measured

% Recovery of spiked amount in sample. Matrix Spike % Rec.

Duplicate Value The result from the Duplicate analysis of the sample.

Duplicate RPD The Relative Percent Difference between two Duplicate Analyses.

The % Recovery for non-environmental compounds (surrogates) Surrogate Recovery

spiked into samples to determine the performance of

an alytical methods.

Surrogate Recovery on the Electrolytic Conductivity Detector. Sur. Recovery (ELCD)

Sur. Recovery (PID) Surrogate Recovery on the Photoionization Detector.

Standard Measured Amount measured for a laboratory control sample Standard Amt Added

Known value for a laboratory control sample % recovered for a laboratory control sample with a known value. Standard % Recovery

Lab Fort Blank Amt Laboratory Fortified Blank Amount Added Lab Fort Blk. Found Laboratory Fortified Blank Amount Found

Lab Fort Blk % Rec Laboratory Fortified Blank % Recovered

Duplicate Laboratory Fortified Blank Amount Added Dup Lab Fort Bl Amt Duplicate Laboratory Fortified Blank Amount Found Dup Lab Fort Bl Fnd Duplicate Laboratory Fortified Blank % Recovery Dup Lab Fort Bl % Rec

Lab Fort Blank Range Laboratory Fortified Blank Range (Absolute value of difference

between recoveries for Lab Fortified Blank and Lab Fortified

Blank Duplicate).

Lab Fort Bl. Av. Rec. Laboratory Fortified Blank Average Recovery

Duplicate Sample Amt Sample Value for Duplicate used with Matrix Spike Duplicate

MSD Amount Added Matrix Spike Duplicate Amount Added (Spiked)

MSD Amt Measured Matrix Spike Duplicate Amount Measured

MSD % Recovery Matrix Spike Duplicate % Recovery

MSD Range Absolute difference between Matrix Spike and Matrix Spike

Duplicate Recoveries



REASONABLE CONFIDENCE PROTOCOL

LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: METCALF & EDDY

Project Location: BRIDGE PORT, CT

Project Number: LIMT-22297

Laboratory Sample ID(s): 08B50798-08B50811

Sampling Date(s): 12/22/08-12/23/08

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6020, 8082, 8260, 6010, ETPH, 7470, 7471

[:]]	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	jxYes □ No
1A	Were the method specified preservation and holding time requirements met?	x Yes □ No
1B	VPH and EPH Methods only: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	□Yes □ No x N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	g¥res ⊡ No
3	Were samples received at an appropriate temperature (<6° °C°)?	XYes a No aN/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	□Yes M No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	yYes □ No □Yes ⊌No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	□Yes ≯ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	≱ Yes □ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered and all questions must be answered.

knowledge and belief and based upon my	ns and penalties of perjury that, to the best of my personal inquiry of those responsible for providing all report, such information is accurate and complete.
Authorized Signature: Edward De	Position: Teçhniçal Director
Printed Name: Edward Denson	Date: 1/5/59
Name of Laboratory: CON-TEST ANALY	TICAL LABORATORY

This certification form is to be used for RCP methods only.

ANALYTICAL LABORATORY	CONTEST

Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR EAST LONGMEADOW, MA 01028

Page
_ ا ک
<u>,</u>

		A 101 A	とくろうこ		O Incom	מה אסר	FOO TUED	DECEIPT HAI EGG	DAY AFTER CAMPIE	THE MADDING TIME STABTS AT 0.00 AM THE	TO TREE CARLORA	** THE
o = Other	O = other				~	_	ab approva	* Require lab approval	101111111111111111111111111111111111111	AND THE PROPERTY OF THE PROPER	Committee of the Commit	
B = Sodium bisulfate	SL = sludge				で 大 Sign	<u>-</u>	1 *4-Day	☐ *72-Hr ☐ *4-Day	Date/fime:/ /// D	, 0 c	Received by: (signature)	Receive
S = Sulfuric Acid	S = soil/solid)L's:	nents or DL's:	Special Requirements	Specia	3 *48-Hr	☐ *24-Hr ☐ *48-Hr	8 361 8 126 8		2 Mary 2	The state of
N = Nitric Acid	A = air	į					RUSH *	윤		1	Relinguished by Jorganius	Relingu
M = Methanol	DW= drinking water	N O N	SACK CO	ent Projec	Data Enhancement Project/RCP	Data E	Other	<u>-</u>	1477-8 1030	Comment of the commen		11/2
H = HCL T = Na thiosulfate	WW= wastewater	7	B	MOX MOX	ower of	30	10-Day				d by: (signatuse)	Received by:
I = Iced X = Na hydroxide	GW = groundwater	1000		T K K	Regulations? 🔇	Regula		Q	18 / hT/21		A Day	11/2
**Preservation Codes:		ents	Requirements	imit Rec	Detection L	Dete	Turnaround **		Ď.)	Relinguished by: (signature)	Relingu
Wn	C - Clean; U - Unknown	H - High; M - Medium; L - Low;	- Mediu	l - Hìgh; M	-				<u> </u>			
	be high in concentration in Matrix/Conc. Code Box:	ution in Mat	oncentra	e high in c	! (7							·
use the following codes to let Con-Test know if a specific sample may	to let Con-Test know if	wing codes	the follo	Please use							Laboratory Comments:	Laborat
		×		0				142768	50786804	PRI DUP	PLDWIR	
		8		0				30/12/14	509\$\$803	181	FCB WITE	
			2	•				Wajery.	5042880x	24	SB -31	
			×	**************************************				30/12/10	5072301	0-2	26-95	
			4	- Announce and the second				20/25/m	20-XX 800	X 75	59-35	
			X					30/10/21	5072519	0-2	50-35	
Comments:	-		X	5	X			Salt de	SPAC 05	~	58-34	
		Ì	†	*Matrix Conc. Code Code	Grab	Comp- osite	Stop Date/Time	Start Date/Time	Lab # 088	cription	D Sample Description	Field ID
O=Other		2	1- 1-x				Sampled	Date S	☐ yes ☐ no	proposal date	yes	☐ yes
T-tedlar bag		0					O OTHER		State Form Required?	Billing purposes)	Proposal Provided? (For Billing purposes)	Propos
S=summa can				OIS KEY		Ø PDF	A EXCEL	Format: 🛪				
V= viai		<u>,* C</u>	<u></u>	(800)	5	12/6	dar Sceputo ce	Email:	optionisties the cond in	The first sections	س م	Sampled By:
ST≃stenie			,					Fax #:		BRIDLEPURT, C	Project Location: BA	Project
Picasic				Ē	CHANEBSITE CLIENT	AWE!	DEMAIL	□FAX				
					one):	heck	DATA DELIVERY (check one):	DATA DE		Sectional	Berrie (Attention:
	ANALYSIS REQUESTED			444			#	Client PO	06442	G	whentone	
~Cont.Code		ণ	<u> </u>		60 42420 can	242	7 e. 8 g	Project #		N. MAWST PAT	is: 060	Address:
Preservation		Ž	.motifies:	*************************************	1001		Telephone:(23))	Telephone	ARIN	Company Name: / N b/7 M - STANT	uny Name: //// b	Compa
# of containers			· mbleras	D.	ن گ		; ;	b	www.contestlabs.com	3	,	

Email: info@contestlabs.com Fax: 413-525-6405 Phone: 413-525-2332

CHAIN OF CUSTODY RECORD

EAST LONGMEADOW, MA 01028 39 SPRUCE ST, 2ND FLOOR

ſ	Page	
	V	1
	y V	\wedge

T = Na thiosulfate	11	4	H = HCL		WW= wastewater	= wast	MM	and	Roise CAPING	1/22	7	-	Chow of		o-Day	ا ن)	Date/Time:	Da	9	Received by (signature)	Received b
X = Na hydroxide	×	ᇈ	= Iced		GW= groundwater	= grou	S S			RSA		0	Regulations?	Regul	Pay	(4)	10.35	12/24/68		Management of the second		3
Š.	n Code	**Preservation Codes:	**Pres)de:	*Matrix Code:	*Ma	, 51	Requirements	uiren		Limit	Detection Limit	Dete	** bun	Turnaround **	and a	Date/Time:	Da	atyre)	Relinguished by: (signature)	Relinguishe
				known	C - Clean; U - Unknown	lean;	c - c	- Low;	ım; L	· Medi	H - High; M - Medium; L - Low;	H - H		*	persubconrect	10 ar 5 m	.					
				×	in concentration in Matrix/Conc. Code Box:	inc. Co	rix/Co	in Mat	ation i	ncent	Jh in cc	be high										
	e may	use the following codes to let Con-Test know if a specific sample may	specific	วพ if a	est kno	Con-T	to let	codes	gniwd	he foll	e use t	Please									Laboratory Comments:	Laboratory
		X										13	5			Wayer	137	50811	~	100 TL 8	× ×	
					X	L	<u> </u>			 	-	************				40/10/10	12/3	50811	(A)	3-29 24	53	
		1	X													30 metro	Ĩ	50809	5		2 13	
		X											or wanterway			12/22/09	12/	50808	~ j		رم ال	
			<u> </u>		X							uniprossion.				12/2/18	ř	50807		50-1200	S	
						X					 	5				12/24/21	2	50806	~	5.8-30 000	SS	
Comments:						 	K	X	V	X		3	9			12/240%	12/	50805			$\overline{\omega}$	
			1	١				F	PA	 	Conc.	*Matrix	Grab	Composite	Stop Date/Time	Time	Start Date/	Lab # ORB	 	Sample Description	Sample [Field ID
0=Other	۲		PP	Vν	4,	e	1/1	<u>.</u>	///	<u></u>					mpled	ate S		□ yes □ no		proposal date		☐ yes
T=tedlar bag		<u> </u>	13	<u></u>	5.V	2 N	91	P	<u>)</u> }	<u></u>					OTHER_		red?	State Form Required?	Sta	Proposal Provided? (For Billing purposes)	Provided?	Proposal I
S=summa can		33 - P			νíc	<u>-</u>	<u>. </u>	<u>. </u>	<u></u>		KEY	T GIS KEY	H	1 PDF	DEXCEL.	Format:	Fon					
V=Vial		L.	n &					•	S lh.	8	Cacconcon	Va.	an Of	Serene	1.		- Email:		*	C S. Q. Mara		Sampled By:
ST=stenie			· du					<i>-</i>	l,		1				**]	Fax#	mittel:		Ord sep on C		Project Location:
P=plastic			-								7	YIEN	3SITE (WEE	DEMAIL AWEBSITE CLIENT	OFAX O	<u> </u>		1			
G=glass											-		one):	neck c	DATA DELIVERY (check one):	TA DELI				Secret	D. 5 e	Attention:
<u>-Cont. Code:</u> A=amber dlass		<u> </u>	ANALYSIS REQUESTED	EQUI	ー覧 E	ALYS	Ž			l					***************************************	Client PO#	 유		06497	GACT	well	
-Cont.Code		4	4	<	7	7	<	4	75	1		7	6084845004	2	608,	Project #	l Pro	r	Ex.	W. Prain St.	000	Address:
**Preservation			ظمت	SAN		enanti.	T	, mex. ; r	18			73 7	2	14	Telephone: (203) /4(-2837	ephone:(Tel	J. Blum	and the same of th	Company Name: IN FICACE & ENNY	Name:	Company
# of containers		,,,,,,	,upequ,	er.	*	_	P	N	Ľ			j)		1			www.contestlabs.com	inuer!	3		

INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS * Require lab approval Received by (signature)

|Qate/Time;

☐ *72-Hr ☐ *4-Day ☐ *24-Hr ☐ *48-Hr

Special Requirements or DL's:

SL = sludge S = soil/solid

B = Sodium bisulfate S = Sulfuric Acid N = Nitric Acid

O = Other

Data Enhancement Project/RCP? DY DN

DW = drinking water

M = Methanol

A = air

Date/Time: グイプ

HSUR Other_

Relinquished by: (signature)

AIHA, NELAC & WBE/DBE Certified



Phone: 413-525-2332 Fax: 413-525-6405

Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

EAST LONGMEADOW, MA 01028 39 SPRUCE ST, 2ND FLOOR

ANALYTICAL LABORATORY	Eliiali: mio@contestiabs.com	S.COM	ረ				
-	www.contestlabs.com	,) } }	K			# of containers
Company Name: / // CI CALF & ENDY	12021	Telephone:(20)) //(1 / 1/2	1484	- Mg			**Preservation
address: 660 MMAIN ST &	exterior	Project # 600 75750	450.04	AVA	# #		~Cont.Code
~	06492	Client PO #	militario de la companio de la companio de la companio de la companio de la companio de la companio de la comp		ANALYSIS REQUESTED	STED	-Cont. Code:
Attention: Daniel Screnet		DATA DELIVERY (check one):	eck one):				A=amber glas G=glass
32 1 2 1 3 5 7	25.0000	DEMAIL	STAVEBSITE CLIENT				P=plastic
Project Location: UV TIME (NEW ST	PINIL PRUSI CI	Fax # :					ST=sterile
Sampled By: 1/2, Serent		Email: dan, seremet	May concon	<u></u>			V= vial
		Format: NEXCEL	APDF DIGISKEY	n;	+		S=summa car
proposal Provided? (For Billing purposes)	State Form Required?	O OTHER_		e (B)	3 P1		T=tedlar bag
yes proposal date	☐ yes ☐ no	Date Sampled		rs 0	PI		0=Other
Field ID Sample Description	Lab#	Start Stop (Date/Time Date/Time	rix Conc.	AVPPE	F		
21-85		12/22/08	X 5	X			Comments
58-13		12/23/08		~			
SB-13 DUP		12/23/68		×			
53-14	i lin	12/22/68		× X			tenyery Attent
51-13		12/12/00		ダタ			
91-95		12/12/68			XX		
5 8-17		12/12/08		R			
5 8 - 18		12/22/08	~	X			
Laboratory Comments:			Please use the be high in co	Please use the following codes to let Con-Test know be high in concentration in Matrix/Conc. Code Box:	use the following codes to let Con-Test know if a specific sample may in concentration in Matrix/Conc. Code Box:	specific sample may	enterna en en en en en en en en en en en en en
	W		H - Hìgh; M -	H - Hìgh; M - Medium; L - Low; (C - Clean; U - Unknown		
Relinguished by: (signature)	Date/Time: (0:30	Turnaround **	Detection Limit Requ	Requirements	*Matrix Code:	**Preservation Codes:	Codes:
Received by: (signeral)	Date/Time:	10-Day	70	CAPPIN.	WW= wastewater	Ŧ	T = Na thiosulfate
. 12 7	1034.8 1030		Data Enhancement Project/RCP?	CP) ZVY ON	DW = drinking water	M = Methanol)
(antipular)	1334-8 1358	<u>HUSH</u> . □ *24-Hr □ *48-Hr	Special Requirements or DL's:	ς.	A = air S = soil/solid	S = Sulfuric Acid	
	ı		1 2 0	-	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(-

Received by: (signature)

Date/Time:

☐ *72-Hr ☐ *4-Day * Require lab approval

SL = sludge O = other_

o = Other_

S = Sulfuric Acid B = Sodium bisulfate

Fax: 413-525-6405 Phone: 413-525-2332

Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

EAST LONGMEADOW, MA 01028 39 SPRUCE ST, 2ND FLOOR

	H = HCL	WW= wastewater	NAED NA		LYCK LYCK	correct of		10-Day		Date/Time:	(e)	Received by: (signature)
d X = Na hydroxide	l = lced	GW= groundwater).	がいた	Regulations?		水。	Ø	cini 80 Matel		I know they
**Preservation Codes:	**Pres	*Matrix Code:		emen	it Requirements	Detection Limit	Det	Turnaround **	Turn	Date/Time:	ature)	Relinquished by: (signature)
	own	C - Clean; U - Unknown	L-Low; (edium;	H - High; M - Medium; L - Low;	HARRY CO.	27.27	1 8 to 5 /6 (0 most			NAME OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OF THE OWNER OWNE	
c sample may	if a specific	use the following codes to let Con-Test know if a specific sample may in concentration in Matrix/Conc. Code Box:	g codes to	tollowin entration	igh in conc	be high					•	
				4		4		-	3/4/4		0-26	shorstony Comments
				X_		K 5			30/22/19	ASSESSION AND ASSESSION AND ASSESSION ASSESSIO	2-2-2	2 5
				8		4			2/22/08	177777777777777777777777777777777777777	B-74	53
				9		4 4			Botatel	The state of the s	2	53-23
				X		9			12/24/08	A WILLIAM CONTRACTOR C	50-22	-05
				9		4			12/22/08		7	50-21
				7		7 5			20/27/21		70	58-20
Comments				4		X		de	30/22/03	***************************************	-19	50-19
		/		A	x Conc. Code	Grab Code	Comp- osite	Stop Date/Time	Start Date/Time	Lab #	Sample Description	ield ID Sample [
0 =Other		rs Vi pp E	v (rs			-	Date Sampled	Date (☐ yes ☐ no	proposal date	J yes
T=fedlar bag		1	B	<u>C</u>				OTHER		State Form Required?	Proposal Provided? (For Billing purposes)	roposal Provided?
S=summa can		7 +	<u>-</u>	<u>, e</u>	GIS KEY		D PDF	EXCEL	Format:			
V= via			-		7	Everon Co	Cremet Co	Jan. 50	Email: 6		REMET	Sampled By: S EREMIT
ST=sterile					1 -				Fax # :		UNDERLOVE CL	Project Location: DNIDEFORT
G=glass					∃	TIEMAII (Check one):	neck o	TEAX TEMAII GREEK ONE):	CIFAX			melinon:
A=amber glass												***************************************
Cont. Code:	UESTED	ANALYSIS REQUESTED				**************************************		#	Client PO#	06492	Walley Fed CT 06	8
~Cont.Code		TOTAL PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS		P	 	60045450,04	4545	600	Project #	***	Nair ST St	ddress: 060
**Preservation				-Trans.		Telephone:(20) / (1 - 28 / 1	11/	e:(%0) _	Telephon	AECOLA	company Name: IM (16 XM X AECOLA	ompany Name: _//
# of containers				_		いっこ	I C	2		www.contestlabs.com		# ## ## ## ## ## ## ## ## ## ## ## ## #

INSORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS

* Require lab approval □ *72-Hr □ *4-Day □ *24-Hr □ *48-Hr

Received by: (signature)

Date/Time

10:30

Data Enhancement Project/PCF? ZIY DN DW= drinking water

RUSH * Other_

Special Requirements or DL's: Colmiso

S = soil/solid SL = sludge O = other_

> B = Sodium bisulfate S = Sulfuric Acid N = Nitric Acid M = Methanol

o = Other_

AIHA NEI AC & MIDEINDE C.....

A = air



Fax: 413-525-6405 Phone: 413-525-2332

CHAIN OF CUSTODY RECORD

EAST LONGMEADOW, MA 01028 39 SPRUCE ST, 2ND FLOOR

T = Na thiosulfate	H HC	WW= wastewater	アルルでは	がし	10+ X	- COWer	□ 10-day		Date/Time:	: (signature)	Received by: (signature)
X = Na hydroxide	I = Iced	GW = groundwater			7		Preday (D	1873	12/24/08		Mary
on Codes:	**Preservation Codes:	*Matrix Code:		ement	n Limit Requirements	*/ Detection	Turnaround **		Date/Time:	Relinquished by: (signature)	Relinguishe
	ďΩ	H - High; M - Medium; L - Low; C - Clean; U - Unknown	, - Low; C	edium; L	H - High; M - M	**************************************	SUB CONTRACT	11.0			
		be high in concentration in Matrix/Conc. Code Box:	in Matrix	entration	be high in conce						
ile may	a specific samp	Please use the following codes to let Con-Test know if a specific sample may	codes to	following	Please use the		desert/seem summere bossessessessessessessessesses			omments:	Laboratory Comments:
				×			12/27	12/		5 B-34 0-2	
		X	N N				12/22/04	121		S B-33	
			4	X 9			\	6		5'8-32	
				8						5.8-31	
			4	X						513-30	
				X						50-29	
				X					TO THE REAL PROPERTY OF THE PR	50-28	
Comments:				4	5	4	12/2/08	12/	100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm	58-27	
			E	1	*Matrix Conc. Code Code	Comp- e osite Grab	Start Stop Date/Time Date/Time	Start Date/	Lab #	Sample Description	Field ID S
0=Other		<u> </u>	e 11/	1			Date Sampled	Ď	□ yes □ no	proposal date	☐ yes
T=tedlar bag		<u> </u>	2/4	5 0			OTHER	ed?	State Form Required?	Proposal Provided? (For Billing purposes)	Proposal Pr
S=summa can		5	<u> </u>	<u>'</u> 	☐ GIS KEY	A Por	at: DEXCEL	Format:			
V= vial				1 6	#2;	Email: don. sectnetle acconcen	11: darser	Ema		STR PRET	Sampled By
ST=sterile								- Fax#:	Company of the second s	Project Location: PRINGROUST, CT	Project Loca
P≕plastic					CLIENT	DEMAIL XVEBSITE CLIENT	X DEMAIL:	□FAX			
G=glass						check one):	DATA DELIVERY (check one):	DAT,		An	Attention:
~Cont. Code:	ESTED	ANALYSIS REQUESTED	D				Client PO #	Clien	06462	wally food CT D.	
~Cont.Code			4	17		Project # 6045450,04	ct # 604	Proje	W x ?	060 N. May St.	Address:
**Preservation	The state of the s	Way:		-	0 34	741-2	hone:("20)	Telep	AECON	Company Name: MATCALF & PAPY	Company No
# of containers		2	~		֡֝֝֝֝֝֝֝֝֝֝֝֝֝֝֝֝֝ ֡֡֞֞֞֞֞֞֞֞֞֞֞֞֞֞֜֞֞֡֜֞֞֞֡		ř		www.contestlabs.com		energy species species species species
							_	stlabs.com	Email: info@contestlabs.com	ANALYTICAL LABORATORY	

Date/Time: プラシップト 8

Data Enhancement Project/RCP

Z OZ

DW= drinking water

N = Nitric Acid

S = Sulfuric Acid

H-HCL M = Methanol

Other 10-Day

Date/Time:

226

□ *24-Hr □ *48-Hr

Special Requirements or DL's:

* HSUR

Relinquished by:

signature)

e C

Date/Time/

INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY ON IS

* Require lab approval ☐ *72-Hr ☐ *4-Day

0 = other_ SL = sludge S = soil/solid

B = Sodium bisulfate

o = Other_

AIHA NEI AC & WREIDRE CONTROL

www.contestlabs.com

Do all samples have the proper pH: Yes No N/A



Sample Receipt Checklist

39 Spruce St. East Longmeadow, MA. 01028

> P: 413-525-2332 F: 413-525-6405

CLIENT NAME: Med Calf/	AECoan_	RECEIVED	BY: 06	week.	DATE: 12/24/08		
1) Was the chain(s) of custody results 2) Does the chain agree with the substitution of the substitution	linquished and sig samples?	ned?	Yes Yes	No No No			
4) How were the samples receive	· · · · · · · · · · · · · · · · · · ·			100(a) [
On Ice Direct from Sa		Ambient I	In Coc	1			
Were the samples received in Ter		nce of (2-6°C	;)? (Yes/	No			
Temperature °C by Temp blank	3.0	Temperatu	re. °C by Temp	gun			
5) Are there Dissolved samples for	or the lab to filter?		Yes	No			
Who was notified		Time _					
6) Are there any samples "On Hol			Yes	(No)	Stored where:		
7) Are there any RUSH or SHORT	HOLDING TIME sa	mples?	Yes	NO			
Who was notified							
8) Location where samples are st	ored:		(Walk-in clier	its only)	ntract samples? Yes No if not already approved		
		ess, a propositionidas sincipal de 600	Client Signatu	ıre:			
	4-1	ant in to	Con To	et			
<u> </u>	ontainers s	CIIL III IV	AOII-IC	<u> </u>	# of containers		
	# of containers		8 oz cleai	· iar			
1 Liter Amber	<u> </u>				1 2		
500 mL Amber 250 mL Amber (8oz amber) 1 Liter Plastic Other glass jar							
250 IIIE Alliber (doz uriber)							
1 Liter Plastic Other glass jar							
500 mL Plastic		-	Air Cass				
250 mL plastic			Brass Sle				
40 mL Vial - type listed below			Tubes				
Colisure / bacteria bottle		1	Summa C				
Dissolved Oxygen bottle		-	Regulate				
Flashpoint bottle			Other				
Encore			Otto				
Laboratory Comments:							
# Bisulfate	# Methanol # DI Water Unpreserved		Time and Da	ite Froz	zen:		



REPORT DATE 1/13/2009

METCALF & EDDY - WALLINGFORD 860 N. MAIN STREET EXTENSION WALLINGFORD, CT 06492 ATTN: CHRIS SHORES

CONTRACT NUMBER:

PURCHASE ORDER NUMBER: 60045450

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-22446

JOB NUMBER: 60045450

PROJECT LOCATION: 80 HASTINGS ST., BRIDGEPORT, CT

FIELD SAMPLE#	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
EB	09B00196	WATER OTHE	Not Specified	6020 pp 12 water	
EB	09B00196	WATER OTHE	Not Specified	8260 water	
EB	09B00196	WATER OTHE	Not Specified	chromium (+6)	
EB	09B00196	WATER OTHE	Not Specified	cyanide-total	
EB	09B00196	WATER OTHE	Not Specified	etph water	
EB	09B00196	WATER OTHE	Not Specified	hg (mg/l) wet	
MW-1	09B00194	GRND WATER	Not Specified	8260 water	
MW-1	09B00194	GRND WATER	Not Specified	chromium (+6)	
MW-1	09B00194	GRND WATER	Not Specified	etph water	
MW-1	09B00197	GRND WATER	Not Specified	6020 pp 12 water	
MW-1	09B00197	GRND WATER	Not Specified	cyanide-total	
MW-1	09B00197	GRND WATER	Not Specified	hg (mg/l) wet	
MW-1 DUP	09B00195	GRND WATER	Not Specified	8260 water	
MW-1 DUP	09B00195	GRND WATER	Not Specified	chromium (+6)	
MW-1 DUP	09B00195	GRND WATER	Not Specified	etph water	
MW-1 DUP	09B00198	GRND WATER	Not Specified	6020 pp 12 water	
MW-1 DUP	09B00198	GRND WATER	Not Specified	cyanide-total	
MW-1 DUP	09B00198	GRND WATER	Not Specified	hg (mg/l) wet	
TRIP BLANK	09B00199	WATER OTHE	Not Specified	8260 water	



REPORT DATE 1/13/2009

METCALF & EDDY - WALLINGFORD 860 N. MAIN STREET EXTENSION WALLINGFORD, CT 06492 ATTN: CHRIS SHORES

CONTRACT NUMBER:

PURCHASE ORDER NUMBER: 60045450

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-22446

JOB NUMBER: 60045450

Comments:

LIMS BATCH NO.: LIMT-22446

CASE NARRATIVE SUMMARY

Recommended sample holding times were not exceeded for all samples analyzed by method(s) listed unless listed below: None Exceeded

All samples for the method(s) listed were received preserved properly in the proper containers at 4 degrees C +/- 2 degrees as specified on the chain-of-custody form unless listed below: All properly preserved

In method 6020, the Interference Check Standard was outside control limits for Se. Possibility of low bias for any reported results cannot be eliminated. Analysis is in control based on LFB recovery.

In method 8260, the initial and/or continuing calibration did not meet method specifications. For all samples, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Naphthalene, and 1,4-Dioxane were calibrated with a relative response factor <0.05.

In method 8260, any reported result for Bromomethane, Acetone, tert-Butyl Alcohol, Chloromethane, and 2,2-Dichloropropane in samples 09B00194, 00196, and 00199 is estimated and likely to be biased on the low side based on continuing calibration bias.

In method 8260, any reported result for Chloromethane in sample 09B00195 is estimated and likely to be biased on the low side based on continuing calibration bias.

In method 8260, any reported result for Chloromethane and 1,2,4-Trichlorobenzene in all samples is likely to be biased on the low side based on laboratory fortified blank (laboratory control sample) recovery bias.

There are no other issues which affect the usability of the data.

DETAILED CASE NARRATIVE

METHOD SW846-7196A

Matrix spike and matrix spike duplicate performed on sample 09B00196.

METHOD SW846 6020 - ADDITIONAL COMMENTS

Sample duplicate and matrix spike performed on sample 09B00197. Sample duplicate not reported for Be, Se, Ag, and Tl due to non detect sample and duplicate results. The duplicate RPD was outside of control limits for As, however, control limits are not applicable when results are <5X the reporting limit.

Samples 09B00197 (including Dup and MS) and 09B00198 were diluted 50X to obtain results for Cd, Cr, Cu, and Zn within the linear dynamic range.

Only PP13 metals were requested and reported.

CT ETPH METHOD - ADDITIONAL COMMENTS



REPORT DATE 1/13/2009

METCALF & EDDY - WALLINGFORD 860 N. MAIN STREET EXTENSION WALLINGFORD, CT 06492 ATTN: CHRIS SHORES

CONTRACT NUMBER:

PURCHASE ORDER NUMBER: 60045450

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #:

LIMT-22446

JOB NUMBER: 60045450

All CT ETPH samples were analyzed undiluted unless specified below: No dilutions were performed.

METHOD SW846 8260 LOW LEVEL WATER - ADDITIONAL COMMENTS

The 8260 method blank was not contaminated with target analytes at levels above the reporting limit except where listed below:

In method 8260, the method blank associated with samples 09B00194, 00196, and 00199 contained Chloroform at 0.63ug/L.

In method 8260, the method blank associated with sample 09B00195 contained Chloroform at 1.18ug/L.

The LCS recoveries for required CT reasonable confidence protocol (RCP) 8260 compounds were all within limits specified by the method except for "difficult analytes" where control limits somewhere between 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, Tetrachloroethylene, Tert-butyl Alcohol, Acetone, 1,4-Dioxane, Vinyl Chloride, Chloromethane, Bromomethane, Naphthalene, 2,2-Dichloropropane, Dichlorodifluoromethane, 2-Hexanone, and Tert-butylethyl Ether

All reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless listed below: All other reporting limits were met.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033

AIHA ELLAP (LEAD) 100033

NORTH CAROLINA CERT, # 652

MASSACHUSETTS MA0100

NEW HAMPSHIRE NELAP 2516

NEW JERSEY NELAP NJ MA007 (AIR)

CONNECTICUT PH-0567

VERMONT DOH (LEAD) No. LL015036

FLORIDA DOH E871027 (AIR)

NEW YORK ELAP/NELAP 10899

RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE

DATE

Tod Kopyscinski

Air Laboratory Manager

Michael Erickson

Assistant Laboratory Director

Edward Denson

Daren Damboragian

Technical Director

Organics Department Supervisor

Denson 1/13/09

^{*} See end of data tabulation for notes and comments pertaining to this sample



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009 860 N. MAIN STREET EXTENSION Page 1 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446 60045450 Job Number:

Date Received: 1/6/2009

Field Sample #: EB

Sample ID: 09B00196 **\$Sampled: 1/6/2009**

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Lo	Limit Hi	P/ F
Antimony	ug/L	ND	01/09/09	KMT	5.00			
•	_							
Arsenic	ug/L	ND	01/09/09	KMT	2.00			
Beryllium	ug/L	ND	01/09/09	KMT	2.00			
Cadmium	ug/L	ND	01/09/09	KMT	2.50			
Chromium	ug/L	ND	01/09/09	KMT	50.0			
Copper	ug/L	ND	01/09/09	KMT	25.0			
Lead	ug/L	ND	01/09/09	KMT	5.00			
Nickel	ug/L	ND	01/09/09	KMT	25.0			
Selenium	ug/L	ND	01/09/09	KMT	25.0			
Silver	ug/L	ND	01/09/09	KMT	2.50			
Thallium	ug/L	ND	01/09/09	KMT	1.00			
Zinc	ug/L	ND	01/09/09	KMT	100			

Analytical Method:

SW846 6020

SAMPLES ARE ANALYZED BY ICP/MS

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

NM = Not Measured

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009
860 N. MAIN STREET EXTENSION Page 2 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446

Date Received: 1/6/2009 Job Number: 60045450

Field Sample #: MW-1

Sample ID: 09B00197 ‡Sampled: 1/6/2009

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Lo	Limit Hi	P/ F
Antimony	ug/L	10.1	01/09/09	KMT	5.00			
Arsenic	ug/L	2.65	01/09/09	KMT	2.00			
Beryllium	ug/L	ND	01/09/09	KMT	2.00			
Cadmium	ug/L	836	01/09/09	KMT	2.50			
Chromium	ug/L	860	01/09/09	KMT	50.0			
Copper	ug/L	404	01/09/09	KMT	25.0			
Lead	ug/L	65.9	01/09/09	KMT	5.00			
Nickel	ug/L	411	01/09/09	KMT	25.0			
Selenium	ug/L	ND	01/09/09	KMT	25.0			
Silver	ug/L	ND	01/09/09	KMT	2.50			
Thallium	ug/L	ND	01/09/09	KMT	1.00			
Zinc	ug/L	1780	01/09/09	KMT	100			

Analytical Method:

SW846 6020

SAMPLES ARE ANALYZED BY ICP/MS

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

NM = Not Measured

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009
860 N. MAIN STREET EXTENSION Page 3 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446

Date Received: 1/6/2009 Job Number: 60045450

Field Sample #: MW-1 DUP

Sample ID: 09B00198 ‡Sampled: 1/6/2009

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date	Analyst	RL	SPEC	Limit	P/F
			Analyzed			Lo	Hi	
Antimony	ug/L	9.44	01/09/09	KMT	5.00			
Arsenic	ug/L	2.40	01/09/09	KMT	2.00			
Beryllium	ug/L	ND	01/09/09	KMT	2.00			
Cadmium	ug/L	831	01/09/09	KMT	2.50			
Chromium	ug/L	821	01/09/09	KMT	50.0			
Copper	ug/L	430	01/09/09	KMT	25.0			
Lead	ug/L	78.2	01/09/09	KMT	5.00			
Nickel	ug/L	405	01/09/09	KMT	25.0			
Selenium	ug/L	ND	01/09/09	KMT	25.0			
Silver	ug/L	ND	01/09/09	KMT	2.50			
Thallium	ug/L	ND	01/09/09	KMT	1.00			
Zinc	ug/L	1870	01/09/09	KMT	100			

Analytical Method:

SW846 6020

SAMPLES ARE ANALYZED BY ICP/MS

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009
860 N. MAIN STREET EXTENSION Page 4 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446

Date Received: 1/6/2009 Job Number: 60045450

Field Sample #: EB

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Lo	Limit Hi	P/ F
Acetone	ug/l	ND	01/09/09	LBD	5.0			
Acrylonitrile	ug/l	ND	01/09/09	LBD	2.0			
tert-Amylmethyl Ether	ug/l	ND	01/09/09	LBD	0.5			
Benzene	ug/l	ND	01/09/09	LBD	0.5			
Bromobenzene	ug/l	ND	01/09/09	LBD	0.5			
Bromochloromethane	ug/l	ND	01/09/09	LBD	0.5			
Bromodichloromethane	ug/l	ND	01/09/09	LBD	0.5			
Bromoform	ug/l	ND	01/09/09	LBD	3.0			
Bromomethane	ug/l	ND	01/09/09	LBD	5.0			
2-Butanone (MEK)	ug/l	ND	01/09/09	LBD	2.0			
tert-Butyl Alcohol	ug/l	ND	01/09/09	LBD	5.0			
n-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5			
sec-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5			
tert-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5			
tert-Butylethyl Ether	ug/l	ND	01/09/09	LBD	0.5			
Carbon Disulfide	ug/l	ND	01/09/09	LBD	0.5			
Carbon Tetrachloride	ug/l	ND	01/09/09	LBD	0.5			
Chlorobenzene	ug/l	ND	01/09/09	LBD	0.5			
Chlorodibromomethane	ug/l	ND	01/09/09	LBD	2.0			
Chloroethane	ug/l	ND	01/09/09	LBD	0.5			
Chloroform	ug/l	9.0	01/09/09	LBD	0.5			
Chloromethane	ug/l	ND	01/09/09	LBD	4.0			
2-Chlorotoluene	ug/l	ND	01/09/09	LBD	0.5			
4-Chlorotoluene	ug/l	ND	01/09/09	LBD	0.5			
1,2-Dibromo-3-Chloropropane	ug/l	ND	01/09/09	LBD	0.5			
1,2-Dibromoethane	ug/l	ND	01/09/09	LBD	0.50			
Dibromomethane	ug/l	ND	01/09/09	LBD	0.5			
1,2-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5			
1,3-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009
860 N. MAIN STREET EXTENSION Page 5 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446

Date Received: 1/6/2009 Job Number: 60045450

Field Sample #: EB

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Lo	Limit Hi	P/ F
1,4-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5			
trans-1,4-Dichloro-2-Butene	ug/l	ND	01/09/09	LBD	1.0			
Dichlorodifluoromethane	ug/l	ND	01/09/09	LBD	0.5			
1,1-Dichloroethane	ug/l	ND	01/09/09	LBD	0.5			
1,2-Dichloroethane	ug/l	ND	01/09/09	LBD	0.5			
1,1-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5			
cis-1,2-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5			
1,2-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5			
1,3-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5			
2,2-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5			
1,1-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5			
cis-1,3-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5			
trans-1,3-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5			
Diethyl Ether	ug/l	ND	01/09/09	LBD	0.5			
Diisopropyl Ether	ug/l	ND	01/09/09	LBD	0.5			
1,4-Dioxane	ug/l	ND	01/09/09	LBD	50.0			
Ethyl Benzene	ug/l	ND	01/09/09	LBD	0.5			
Hexachlorobutadiene	ug/l	ND	01/09/09	LBD	0.4			
2-Hexanone	ug/l	ND	01/09/09	LBD	2.0			
Isopropylbenzene	ug/l	ND	01/09/09	LBD	0.5			
p-Isopropyltoluene	ug/l	ND	01/09/09	LBD	0.5			
MTBE	ug/l	ND	01/09/09	LBD	0.5			
Methylene Chloride	ug/l	ND	01/09/09	LBD	1.0			
MIBK	ug/l	ND	01/09/09	LBD	2.0			
Naphthalene	ug/l	ND	01/09/09	LBD	0.5			
n-Propylbenzene	ug/l	ND	01/09/09	LBD	0.5			
Styrene	ug/l	ND	01/09/09	LBD	0.5			
1,1,1,2-Tetrachloroethane	ug/l	ND	01/09/09	LBD	0.5			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009
860 N. MAIN STREET EXTENSION Page 6 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446

Date Received: 1/6/2009 Job Number: 60045450

Field Sample #: EB

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date	Analyst	RL	SPEC	Limit	P/ F
			Analyzed			Lo	Hi	
1,1,2,2-Tetrachloroethane	ug/l	ND	01/09/09	LBD	0.5			
Tetrachloroethylene	ug/l	ND	01/09/09	LBD	0.5			
Tetrahydrofuran	ug/l	ND	01/09/09	LBD	5.0			
Toluene	ug/l	ND	01/09/09	LBD	0.5			
1,2,3-Trichlorobenzene	ug/l	ND	01/09/09	LBD	0.5			
1,2,4-Trichlorobenzene	ug/l	ND	01/09/09	LBD	0.5			
1,3,5-Trichlorobenzene	ug/l	ND	01/09/09	LBD	1.0			
1,1,1-Trichloroethane	ug/l	ND	01/09/09	LBD	0.5			
1,1,2-Trichloroethane	ug/l	ND	01/09/09	LBD	0.5			
Trichloroethylene	ug/l	ND	01/09/09	LBD	0.5			
Trichlorofluoromethane	ug/l	ND	01/09/09	LBD	0.5			
1,2,3-Trichloropropane	ug/l	ND	01/09/09	LBD	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	01/09/09	LBD	0.5			
1,2,4-Trimethylbenzene	ug/l	ND	01/09/09	LBD	0.5			
1,3,5-Trimethylbenzene	ug/l	ND	01/09/09	LBD	0.5			
Vinyl Chloride	ug/l	ND	01/09/09	LBD	0.5			
m + p Xylene	ug/l	ND	01/09/09	LBD	1.0			
o-Xylene	ug/l	ND	01/09/09	LBD	0.5			

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009
860 N. MAIN STREET EXTENSION Page 7 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446

Date Received: 1/6/2009 Job Number: 60045450

Field Sample #: MW-1

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Lo	Limit Hi	P/ F
Acetone	ug/l	ND	01/09/09	LBD	5.0			
Acrylonitrile	ug/l	ND	01/09/09	LBD	2.0			
tert-Amylmethyl Ether	ug/l	ND	01/09/09	LBD	0.5			
Benzene	ug/l	ND	01/09/09	LBD	0.5			
Bromobenzene	ug/l	ND	01/09/09	LBD	0.5			
Bromochloromethane	ug/l	ND	01/09/09	LBD	0.5			
Bromodichloromethane	ug/l	ND	01/09/09	LBD	0.5			
Bromoform	ug/l	ND	01/09/09	LBD	3.0			
Bromomethane	ug/l	ND	01/09/09	LBD	5.0			
2-Butanone (MEK)	ug/l	ND	01/09/09	LBD	2.0			
tert-Butyl Alcohol	ug/l	ND	01/09/09	LBD	5.0			
n-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5			
sec-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5			
tert-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5			
tert-Butylethyl Ether	ug/l	ND	01/09/09	LBD	0.5			
Carbon Disulfide	ug/l	ND	01/09/09	LBD	0.5			
Carbon Tetrachloride	ug/l	ND	01/09/09	LBD	0.5			
Chlorobenzene	ug/l	ND	01/09/09	LBD	0.5			
Chlorodibromomethane	ug/l	ND	01/09/09	LBD	2.0			
Chloroethane	ug/l	ND	01/09/09	LBD	0.5			
Chloroform	ug/l	1.2	01/09/09	LBD	0.5			
Chloromethane	ug/l	ND	01/09/09	LBD	4.0			
2-Chlorotoluene	ug/l	ND	01/09/09	LBD	0.5			
4-Chlorotoluene	ug/l	ND	01/09/09	LBD	0.5			
1,2-Dibromo-3-Chloropropane	ug/l	ND	01/09/09	LBD	0.5			
1,2-Dibromoethane	ug/l	ND	01/09/09	LBD	0.50			
Dibromomethane	ug/l	ND	01/09/09	LBD	0.5			
1,2-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5			
1,3-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009
860 N. MAIN STREET EXTENSION Page 8 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446

Date Received: 1/6/2009 Job Number: 60045450

Field Sample #: MW-1

Sample ID: 09B00194 ‡Sampled: 1/6/2009

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Lo	Limit Hi	P/ F
1,4-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5			
trans-1,4-Dichloro-2-Butene	ug/l	ND	01/09/09	LBD	1.0			
Dichlorodifluoromethane	ug/l	ND	01/09/09	LBD	0.5			
1,1-Dichloroethane	ug/l	ND	01/09/09	LBD	0.5			
1,2-Dichloroethane	ug/l	ND	01/09/09	LBD	0.5			
1,1-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5			
cis-1,2-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5			
1,2-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5			
1,3-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5			
2,2-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5			
1,1-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5			
cis-1,3-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5			
trans-1,3-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5			
Diethyl Ether	ug/l	ND	01/09/09	LBD	0.5			
Diisopropyl Ether	ug/l	ND	01/09/09	LBD	0.5			
1,4-Dioxane	ug/l	ND	01/09/09	LBD	50.0			
Ethyl Benzene	ug/l	ND	01/09/09	LBD	0.5			
Hexachlorobutadiene	ug/l	ND	01/09/09	LBD	0.4			
2-Hexanone	ug/l	ND	01/09/09	LBD	2.0			
Isopropylbenzene	ug/l	ND	01/09/09	LBD	0.5			
p-Isopropyltoluene	ug/l	ND	01/09/09	LBD	0.5			
MTBE	ug/l	ND	01/09/09	LBD	0.5			
Methylene Chloride	ug/l	ND	01/09/09	LBD	1.0			
MIBK	ug/l	ND	01/09/09	LBD	2.0			
Naphthalene	ug/l	ND	01/09/09	LBD	0.5			
n-Propylbenzene	ug/l	ND	01/09/09	LBD	0.5			
Styrene	ug/l	ND	01/09/09	LBD	0.5			
1,1,1,2-Tetrachloroethane	ug/l	ND	01/09/09	LBD	0.5			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009
860 N. MAIN STREET EXTENSION Page 9 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446

Date Received: 1/6/2009 Job Number: 60045450

Field Sample #: MW-1

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date	Analyst	RL	SPEC	Limit	P/F
			Analyzed			Lo	Hi	
1,1,2,2-Tetrachloroethane	ug/l	ND	01/09/09	LBD	0.5			
Tetrachloroethylene	ug/l	ND	01/09/09	LBD	0.5			
Tetrahydrofuran	ug/l	ND	01/09/09	LBD	5.0			
Toluene	ug/l	ND	01/09/09	LBD	0.5			
1,2,3-Trichlorobenzene	ug/l	ND	01/09/09	LBD	0.5			
1,2,4-Trichlorobenzene	ug/l	ND	01/09/09	LBD	0.5			
1,3,5-Trichlorobenzene	ug/l	ND	01/09/09	LBD	1.0			
1,1,1-Trichloroethane	ug/l	ND	01/09/09	LBD	0.5			
1,1,2-Trichloroethane	ug/l	ND	01/09/09	LBD	0.5			
Trichloroethylene	ug/l	1.3	01/09/09	LBD	0.5			
Trichlorofluoromethane	ug/l	ND	01/09/09	LBD	0.5			
1,2,3-Trichloropropane	ug/l	ND	01/09/09	LBD	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	01/09/09	LBD	0.5			
1,2,4-Trimethylbenzene	ug/l	ND	01/09/09	LBD	0.5			
1,3,5-Trimethylbenzene	ug/l	ND	01/09/09	LBD	0.5			
Vinyl Chloride	ug/l	ND	01/09/09	LBD	0.5			
m + p Xylene	ug/l	ND	01/09/09	LBD	1.0			
o-Xylene	ug/l	ND	01/09/09	LBD	0.5			

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009 860 N. MAIN STREET EXTENSION Page 10 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446 1/6/2009 60045450 Date Received: Job Number:

Field Sample #: MW-1 DUP

Sample ID: 09B00195 **\$Sampled: 1/6/2009**

Not Specified

Sample Matrix: **GRND WATER**

	Units	Results	Date Analyzed	Analyst	RL	SPEC Lo	Limit Hi	P/ F
Acetone	ug/l	ND	01/12/09	LBD	5.0			
Acrylonitrile	ug/l	ND	01/12/09	LBD	2.0			
tert-Amylmethyl Ether	ug/l	ND	01/12/09	LBD	0.5			
Benzene	ug/l	ND	01/12/09	LBD	0.5			
Bromobenzene	ug/l	ND	01/12/09	LBD	0.5			
Bromochloromethane	ug/l	ND	01/12/09	LBD	0.5			
Bromodichloromethane	ug/l	ND	01/12/09	LBD	0.5			
Bromoform	ug/l	ND	01/12/09	LBD	3.0			
Bromomethane	ug/l	ND	01/12/09	LBD	5.0			
2-Butanone (MEK)	ug/l	ND	01/12/09	LBD	2.0			
tert-Butyl Alcohol	ug/l	ND	01/12/09	LBD	5.0			
n-Butylbenzene	ug/l	ND	01/12/09	LBD	0.5			
sec-Butylbenzene	ug/l	ND	01/12/09	LBD	0.5			
tert-Butylbenzene	ug/l	ND	01/12/09	LBD	0.5			
tert-Butylethyl Ether	ug/l	ND	01/12/09	LBD	0.5			
Carbon Disulfide	ug/l	ND	01/12/09	LBD	0.5			
Carbon Tetrachloride	ug/l	ND	01/12/09	LBD	0.5			
Chlorobenzene	ug/l	ND	01/12/09	LBD	0.5			
Chlorodibromomethane	ug/l	ND	01/12/09	LBD	2.0			
Chloroethane	ug/l	ND	01/12/09	LBD	0.5			
Chloroform	ug/l	1.2	01/12/09	LBD	0.5			
Chloromethane	ug/l	ND	01/12/09	LBD	4.0			
2-Chlorotoluene	ug/l	ND	01/12/09	LBD	0.5			
4-Chlorotoluene	ug/l	ND	01/12/09	LBD	0.5			
1,2-Dibromo-3-Chloropropane	ug/l	ND	01/12/09	LBD	0.5			
1,2-Dibromoethane	ug/l	ND	01/12/09	LBD	0.50			
Dibromomethane	ug/l	ND	01/12/09	LBD	0.5			
1,2-Dichlorobenzene	ug/l	ND	01/12/09	LBD	0.5			
1,3-Dichlorobenzene	ug/l	ND	01/12/09	LBD	0.5			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009 860 N. MAIN STREET EXTENSION Page 11 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446 60045450 Date Received: 1/6/2009 Job Number:

Field Sample #: MW-1 DUP

Sample ID: 09B00195 **\$Sampled: 1/6/2009**

Not Specified

Sample Matrix: **GRND WATER**

	Units	Results	Date Analyzed	Analyst	RL	SPEC Lo	Limit Hi	P/F
1,4-Dichlorobenzene	ug/l	ND	01/12/09	LBD	0.5			
trans-1,4-Dichloro-2-Butene	ug/l	ND	01/12/09	LBD	1.0			
Dichlorodifluoromethane	ug/l	ND	01/12/09	LBD	0.5			
1,1-Dichloroethane	ug/l	ND	01/12/09	LBD	0.5			
1,2-Dichloroethane	ug/l	ND	01/12/09	LBD	0.5			
1,1-Dichloroethylene	ug/l	ND	01/12/09	LBD	0.5			
cis-1,2-Dichloroethylene	ug/l	ND	01/12/09	LBD	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	01/12/09	LBD	0.5			
1,2-Dichloropropane	ug/l	ND	01/12/09	LBD	0.5			
1,3-Dichloropropane	ug/l	ND	01/12/09	LBD	0.5			
2,2-Dichloropropane	ug/l	ND	01/12/09	LBD	0.5			
1,1-Dichloropropene	ug/l	ND	01/12/09	LBD	0.5			
cis-1,3-Dichloropropene	ug/l	ND	01/12/09	LBD	0.5			
trans-1,3-Dichloropropene	ug/l	ND	01/12/09	LBD	0.5			
Diethyl Ether	ug/l	ND	01/12/09	LBD	0.5			
Diisopropyl Ether	ug/l	ND	01/12/09	LBD	0.5			
1,4-Dioxane	ug/l	ND	01/12/09	LBD	50.0			
Ethyl Benzene	ug/l	ND	01/12/09	LBD	0.5			
Hexachlorobutadiene	ug/l	ND	01/12/09	LBD	0.4			
2-Hexanone	ug/l	ND	01/12/09	LBD	2.0			
Isopropylbenzene	ug/l	ND	01/12/09	LBD	0.5			
p-Isopropyltoluene	ug/l	ND	01/12/09	LBD	0.5			
MTBE	ug/l	ND	01/12/09	LBD	0.5			
Methylene Chloride	ug/l	ND	01/12/09	LBD	1.0			
MIBK	ug/l	ND	01/12/09	LBD	2.0			
Naphthalene	ug/l	ND	01/12/09	LBD	0.5			
n-Propylbenzene	ug/l	ND	01/12/09	LBD	0.5			
Styrene	ug/l	ND	01/12/09	LBD	0.5			
1,1,1,2-Tetrachloroethane	ug/l	ND	01/12/09	LBD	0.5			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009
860 N. MAIN STREET EXTENSION Page 12 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446

Date Received: 1/6/2009 Job Number: 60045450

Field Sample #: MW-1 DUP

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date	Analyst	RL	SPEC		P/F
			Analyzed			Lo	Hi	
1,1,2,2-Tetrachloroethane	ug/l	ND	01/12/09	LBD	0.5			
Tetrachloroethylene	ug/l	ND	01/12/09	LBD	0.5			
Tetrahydrofuran	ug/l	ND	01/12/09	LBD	5.0			
Toluene	ug/l	ND	01/12/09	LBD	0.5			
1,2,3-Trichlorobenzene	ug/l	ND	01/12/09	LBD	0.5			
1,2,4-Trichlorobenzene	ug/l	ND	01/12/09	LBD	0.5			
1,3,5-Trichlorobenzene	ug/l	ND	01/12/09	LBD	1.0			
1,1,1-Trichloroethane	ug/l	ND	01/12/09	LBD	0.5			
1,1,2-Trichloroethane	ug/l	ND	01/12/09	LBD	0.5			
Trichloroethylene	ug/l	1.1	01/12/09	LBD	0.5			
Trichlorofluoromethane	ug/l	ND	01/12/09	LBD	0.5			
1,2,3-Trichloropropane	ug/l	ND	01/12/09	LBD	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	01/12/09	LBD	0.5			
1,2,4-Trimethylbenzene	ug/l	ND	01/12/09	LBD	0.5			
1,3,5-Trimethylbenzene	ug/l	ND	01/12/09	LBD	0.5			
Vinyl Chloride	ug/l	ND	01/12/09	LBD	0.5			
m + p Xylene	ug/l	ND	01/12/09	LBD	1.0			
o-Xylene	ug/l	ND	01/12/09	LBD	0.5			

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009
860 N. MAIN STREET EXTENSION Page 13 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446

Date Received: 1/6/2009 Job Number: 60045450

Field Sample #: TRIP BLANK

Sample ID: 09B00199 ‡Sampled: 1/6/2009

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Lo	Limit Hi	P/ F
Acetone	ug/l	ND	01/09/09	LBD	5.0			
Acrylonitrile	ug/l	ND	01/09/09	LBD	2.0			
tert-Amylmethyl Ether	ug/l	ND	01/09/09	LBD	0.5			
Benzene	ug/l	ND	01/09/09	LBD	0.5			
Bromobenzene	ug/l	ND	01/09/09	LBD	0.5			
Bromochloromethane	ug/l	ND	01/09/09	LBD	0.5			
Bromodichloromethane	ug/l	ND	01/09/09	LBD	0.5			
Bromoform	ug/l	ND	01/09/09	LBD	3.0			
Bromomethane	ug/l	ND	01/09/09	LBD	5.0			
2-Butanone (MEK)	ug/l	ND	01/09/09	LBD	2.0			
tert-Butyl Alcohol	ug/l	ND	01/09/09	LBD	5.0			
n-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5			
sec-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5			
tert-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5			
tert-Butylethyl Ether	ug/l	ND	01/09/09	LBD	0.5			
Carbon Disulfide	ug/l	ND	01/09/09	LBD	0.5			
Carbon Tetrachloride	ug/l	ND	01/09/09	LBD	0.5			
Chlorobenzene	ug/l	ND	01/09/09	LBD	0.5			
Chlorodibromomethane	ug/l	ND	01/09/09	LBD	2.0			
Chloroethane	ug/l	ND	01/09/09	LBD	0.5			
Chloroform	ug/l	4.2	01/09/09	LBD	0.5			
Chloromethane	ug/l	ND	01/09/09	LBD	4.0			
2-Chlorotoluene	ug/l	ND	01/09/09	LBD	0.5			
4-Chlorotoluene	ug/l	ND	01/09/09	LBD	0.5			
1,2-Dibromo-3-Chloropropane	ug/l	ND	01/09/09	LBD	0.5			
1,2-Dibromoethane	ug/l	ND	01/09/09	LBD	0.50			
Dibromomethane	ug/l	ND	01/09/09	LBD	0.5			
1,2-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5			
1,3-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009
860 N. MAIN STREET EXTENSION Page 14 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446

Date Received: 1/6/2009 Job Number: 60045450

Field Sample #: TRIP BLANK

Sample ID: 09B00199 ‡Sampled: 1/6/2009

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Lo	Limit Hi	P/ F
1,4-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5			
trans-1,4-Dichloro-2-Butene	ug/l	ND	01/09/09	LBD	1.0			
Dichlorodifluoromethane	ug/l	ND	01/09/09	LBD	0.5			
1,1-Dichloroethane	ug/l	ND	01/09/09	LBD	0.5			
1,2-Dichloroethane	ug/l	ND	01/09/09	LBD	0.5			
1,1-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5			
cis-1,2-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5			
1,2-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5			
1,3-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5			
2,2-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5			
1,1-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5			
cis-1,3-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5			
trans-1,3-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5			
Diethyl Ether	ug/l	ND	01/09/09	LBD	0.5			
Diisopropyl Ether	ug/l	ND	01/09/09	LBD	0.5			
1,4-Dioxane	ug/l	ND	01/09/09	LBD	50.0			
Ethyl Benzene	ug/l	ND	01/09/09	LBD	0.5			
Hexachlorobutadiene	ug/l	ND	01/09/09	LBD	0.4			
2-Hexanone	ug/l	ND	01/09/09	LBD	2.0			
Isopropylbenzene	ug/l	ND	01/09/09	LBD	0.5			
p-Isopropyltoluene	ug/l	ND	01/09/09	LBD	0.5			
MTBE	ug/l	ND	01/09/09	LBD	0.5			
Methylene Chloride	ug/l	ND	01/09/09	LBD	1.0			
MIBK	ug/l	ND	01/09/09	LBD	2.0			
Naphthalene	ug/l	ND	01/09/09	LBD	0.5			
n-Propylbenzene	ug/l	ND	01/09/09	LBD	0.5			
Styrene	ug/l	ND	01/09/09	LBD	0.5			
1,1,1,2-Tetrachloroethane	ug/l	ND	01/09/09	LBD	0.5			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009
860 N. MAIN STREET EXTENSION Page 15 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446

Date Received: 1/6/2009 Job Number: 60045450

Field Sample #: TRIP BLANK

Sample ID: 09B00199 ‡Sampled: 1/6/2009

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC L Lo	imit Hi	P/ F
1,1,2,2-Tetrachloroethane	ug/l	ND	01/09/09	LBD	0.5			
Tetrachloroethylene	ug/l	ND	01/09/09	LBD	0.5			
Tetrahydrofuran	ug/l	ND	01/09/09	LBD	5.0			
Toluene	ug/l	ND	01/09/09	LBD	0.5			
1,2,3-Trichlorobenzene	ug/l	ND	01/09/09	LBD	0.5			
1,2,4-Trichlorobenzene	ug/l	ND	01/09/09	LBD	0.5			
1,3,5-Trichlorobenzene	ug/l	ND	01/09/09	LBD	1.0			
1,1,1-Trichloroethane	ug/l	ND	01/09/09	LBD	0.5			
1,1,2-Trichloroethane	ug/l	ND	01/09/09	LBD	0.5			
Trichloroethylene	ug/l	ND	01/09/09	LBD	0.5			
Trichlorofluoromethane	ug/l	ND	01/09/09	LBD	0.5			
1,2,3-Trichloropropane	ug/l	ND	01/09/09	LBD	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	01/09/09	LBD	0.5			
1,2,4-Trimethylbenzene	ug/l	ND	01/09/09	LBD	0.5			
1,3,5-Trimethylbenzene	ug/l	ND	01/09/09	LBD	0.5			
Vinyl Chloride	ug/l	ND	01/09/09	LBD	0.5			
m + p Xylene	ug/l	ND	01/09/09	LBD	1.0			
o-Xylene	ug/l	ND	01/09/09	LBD	0.5			

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009
860 N. MAIN STREET EXTENSION Page 16 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446

Date Received: 1/6/2009 Job Number: 60045450

Field Sample #: EB

Not Specified

Sample Matrix: WATER OTHER

Units Results Date Analyst RL SPEC Limit P/ F

Analyzed Lo Hi

Chromium (+6) mg/l ND 01/06/09 AED 0.004

Field Sample #: MW-1

Not Specified

Sample Matrix: GRND WATER

Units Results Date Analyst RL SPEC Limit P/ F Analyzed Lo Hi

Chromium (+6) mg/l 1.02 01/06/09 AED 0.040

Field Sample #: MW-1 DUP

Not Specified

Sample Matrix: GRND WATER

Units Results Date Analyst RLSPEC Limit P/F Analyzed Lo Ηi 1.00 01/06/09 AED 0.040 Chromium (+6) mg/l

Analytical Method:

SM 3500-Cr D/SW-846 7196

COLORIMETRIC DETERMINATION WITH ACIDIC S-DIPHENYLCARBAZIDE

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009
860 N. MAIN STREET EXTENSION Page 17 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446

Date Received: 1/6/2009 Job Number: 60045450

Field Sample #: EB

Sample ID: 09B00196 ‡Sampled: 1/6/2009

Not Specified

Sample Matrix: WATER OTHER

Units Results Date Analyst RL SPEC Limit P/ F

Analyzed Lo Hi

Cyanide mg/l 0.013 01/13/09 VAK 0.010

Field Sample #: MW-1

Sample ID: 09B00197 ‡Sampled: 1/6/2009

Not Specified

Sample Matrix: GRND WATER

Units Results Date Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

Cyanide mg/l 0.197 01/13/09 VAK 0.010

Field Sample #: MW-1 DUP

Not Specified

Sample Matrix: GRND WATER

Units Results Date Analyst RLSPEC Limit P/F Analyzed Lo Ηi 0.214 01/13/09 0.010 Cyanide mg/l VAK

Analytical Method:

SW846 9014 / SM 4500 CN E

DISTILLATION FOLLOWED BY REACTION WITH CHLORAMINE-T/PYRIDINE-BARBITURIC

ACID AND PHOSPHATE BUFFER.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to

determine PASS (P) or FAIL (F) condition of results.

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009
860 N. MAIN STREET EXTENSION Page 18 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446

Date Received: 1/6/2009 Job Number: 60045450

Field Sample #: EB

Sample ID: 09B00196 ‡Sampled: 1/6/2009

Not Specified

Sample Matrix: WATER OTHER

Units Results Date Analyst RL SPEC Limit P/ F

Analyzed Lo Hi

Extractable TPH (ETPH) mg/l ND 01/07/09 PJG 0.075

Field Sample #: MW-1

Not Specified

Sample Matrix: GRND WATER

Units Results Date Analyst RL SPEC Limit P/ F Analyzed Lo Hi

Extractable TPH (ETPH) mg/l 0.831 01/07/09 PJG 0.075

Field Sample #: MW-1 DUP

Not Specified

Sample Matrix: GRND WATER

Units Results Date Analyst RL**SPEC Limit** P/F Analyzed Lo Hi 0.904 01/07/09 PJG Extractable TPH (ETPH) mg/l 0.075

Analytical Method:

Extractable TPH (CT ETPH)

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE AND ANALYZED BY GAS

CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION (GC/FID).

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009
860 N. MAIN STREET EXTENSION Page 19 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446

Date Received: 1/6/2009 Job Number: 60045450

Field Sample #: EB

Sample ID: 09B00196 ‡Sampled: 1/6/2009

Not Specified

Sample Matrix: WATER OTHER

Units Results Date Analyst RL SPEC Limit P/ F

Analyzed Lo Hi

Mercury mg/l ND 01/08/09 KM 0.00010

Field Sample #: MW-1

Sample ID: 09B00197 ‡Sampled: 1/6/2009

Not Specified

Sample Matrix: GRND WATER

Units Results Date Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

Mercury mg/l 0.00017 01/08/09 KM 0.00010

Field Sample #: MW-1 DUP

Not Specified

Sample Matrix: GRND WATER

Units Results Date Analyst RL SPEC Limit P/ F Analyzed Lo Hi

Mercury mg/l 0.00017 01/08/09 KM 0.00010

Analytical Method: EPA 245.1/SW846 7470

COLD VAPOR TECHNIQUE (FLAMELESS ABSORPTION AT 254 NM)

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled



CHRIS SHORES

METCALF & EDDY - WALLINGFORD 1/13/2009
860 N. MAIN STREET EXTENSION Page 20 of 20

WALLINGFORD, CT 06492 Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22446

Date Received: 1/6/2009 Job Number: 60045450

The following notes were attached to the reported analysis:

Sample ID: * 09B00194
Analysis: Chromium (+6)

Analyzed at 4:45 PM

Sample ID: * 09B00195
Analysis: Chromium (+6)

Analyzed at 4:45 PM

Sample ID: * 09B00196 Analysis: Chromium (+6)

Sample duplicate = <0.004 mg/L Analyzed at 4:45 PM

** END OF REPORT **

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009			Page 1 of 25			
QC Batch Number	er: BATCH-15830						
Sample Id	Analysis	QC Analysis	Values	Units	Limits		
9B00197							
	Silver	Sample Amount	<2.50	ug/L			
		Matrix Spk Amt Added	500.00	ug/L			
		MS Amt Measured	518.78	ug/L			
		Matrix Spike % Rec.	103.75	%	75-125		
	Arsenic	Sample Amount	2.65	ug/L			
		Duplicate Value	<2.00	ug/L			
		Duplicate RPD	>27.9	%	0-20		
		Sample Amount	2.65	ug/L			
		Matrix Spk Amt Added	500.00	ug/L			
		MS Amt Measured	517.58	ug/L			
		Matrix Spike % Rec.	102.98	%	75-125		
	Beryllium	Sample Amount	<2.00	ug/L			
		Matrix Spk Amt Added	500.00	ug/L			
		MS Amt Measured	437.71	ug/L			
		Matrix Spike % Rec.	87.54	%	75-125		
	Cadmium	Sample Amount	836.00	ug/L			
		Duplicate Value	850.50	ug/L			
		Duplicate RPD	1.71	%	0-20		
		Sample Amount	836.00	ug/L			
		Matrix Spk Amt Added	500.00	ug/L			
		MS Amt Measured	1323.00	ug/L			
		Matrix Spike % Rec.	97.40	%	75-125		
	Chromium	Sample Amount	859.50	ug/L			
		Duplicate Value	837.50	ug/L			
		Duplicate RPD	2.59	%	0-20		
		Sample Amount	859.50	ug/L			
		Matrix Spk Amt Added	500.00	ug/L			
		MS Amt Measured	1328.00	ug/L			
		Matrix Spike % Rec.	93.70	%	75-125		
	Copper	Sample Amount	404.20	ug/L			
		Duplicate Value	409.45	ug/L			
		Duplicate RPD	1.29	%	0-20		
		Sample Amount	404.20	ug/L			
		Matrix Spk Amt Added	500.00	ug/L			
		MS Amt Measured	927.50	ug/L			
		Matrix Spike % Rec.	104.66	%	75-125		
	Nickel	Sample Amount	411.37	ug/L			
		Duplicate Value	411.37	ug/L			
		Duplicate RPD	0.00	%	0-20		
		Sample Amount	411.37	ug/L			
		Matrix Spk Amt Added	500.00	ug/L			
		MS Amt Measured	867.86	ug/L			
		Matrix Spike % Rec.	91.29	%	75-125		



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009	Lims Bat #: LIMT-22446	Page 2 of 25		2 of 25
QC Batch Number	er: BATCH-15830				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B00197					
	Lead	Sample Amount	65.93	ug/L	
		Duplicate Value	67.46	ug/L	
		Duplicate RPD	2.29	%	0-20
		Sample Amount	65.93	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	554.95	ug/L	
		Matrix Spike % Rec.	97.80	%	75-125
	Antimony	Sample Amount	10.05	ug/L	
		Duplicate Value	10.52	ug/L	
		Duplicate RPD	4.60	%	0-20
		Sample Amount	10.05	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	518.54	ug/L	
		Matrix Spike % Rec.	101.69	%	75-125
	Selenium	Sample Amount	<25.0	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	452.92	ug/L	
		Matrix Spike % Rec.	90.58	%	75-125
	Thallium	Sample Amount	<1.00	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	465.85	ug/L	
		Matrix Spike % Rec.	93.17	%	75-125
	Zinc	Sample Amount	1784.00	ug/L	
		Duplicate Value	1930.00	ug/L	
		Duplicate RPD	7.86	%	0-20
		Sample Amount	1784.00	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	2351.00	ug/L	
		Matrix Spike % Rec.	113.40	%	75-125
BLANK-128378					
	Silver	Blank	<2.50	ug/L	
	Arsenic	Blank	<2.00	ug/L	
	Beryllium	Blank	<2.00	ug/L	
	Cadmium	Blank	<2.50	ug/L	
	Chromium	Blank	<50.0	ug/L	
	Copper	Blank	<25.0	ug/L	
	Nickel	Blank	<25.0	ug/L	
	Lead	Blank	<5.00	ug/L	
	Antimony	Blank	<5.00	ug/L	
	Selenium	Blank	<25.0	ug/L	
	Thallium	Blank	<1.00	ug/L	
	Zinc	Blank	<100.	ug/L	
LFBLANK-90406				-	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date: 1/13/2009		Lims Bat #: LIMT-22446	Page 3 of 25		
QC Batch Numbe	er: BATCH-15830				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
FBLANK-90406					
	Silver	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	522.98	ug/L	
		Lab Fort Blk. % Rec.	104.59	%	80-120
	Arsenic	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	519.38	ug/L	
		Lab Fort Blk. % Rec.	103.87	%	80-120
	Beryllium	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	474.21	ug/L	
		Lab Fort Blk. % Rec.	94.84	%	80-120
	Cadmium	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	481.79	ug/L	
		Lab Fort Blk. % Rec.	96.35	%	80-120
	Chromium	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	473.99	ug/L	
		Lab Fort Blk. % Rec.	94.79	%	80-120
	Copper	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	497.28	ug/L	
		Lab Fort Blk. % Rec.	99.45	%	80-120
	Nickel	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	484.27	ug/L	
		Lab Fort Blk. % Rec.	96.85	%	80-120
	Lead	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	474.35	ug/L	
		Lab Fort Blk. % Rec.	94.87	%	80-120
	Antimony	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	490.04	ug/L	
		Lab Fort Blk. % Rec.	98.00	%	80-120
	Selenium	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	474.83	ug/L	
		Lab Fort Blk. % Rec.	94.96	%	80-120
	Thallium	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	464.18	ug/L	
		Lab Fort Blk. % Rec.	92.83	%	80-120
	Zinc	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	575.66	ug/L	
		Lab Fort Blk. % Rec.	115.13	%	80-120



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009	Lims Bat #: LIMT-22446	Page 4 of 25		e 4 of 25
QC Batch Number	CYANIDE-3176				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-128432					
	Cyanide	Blank	<0.010	mg/l	
LFBLANK-90468					
	Cyanide	Lab Fort Blank Amt.	0.744	mg/l	
		Lab Fort Blk. Found	0.643	mg/l	
		Lab Fort Blk. % Rec.	86.424	%	
STDADD-35147					
	Cyanide	Standard Measured	0.346	mg/l	
		Standard Amt Added	0.383	mg/l	
		Standard % Recovery	90.339	%	80-120



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

1/13/2009	Lims Bat #: LIMT-22446		Page 5 of 25	
GC/FID-22911				
Analysis	QC Analysis	Values	Units	Limits
Terphenyl	Surrogate Recovery	66.7	%	50-150
Terphenyl	Surrogate Recovery	76.2	%	50-150
Terphenyl	Surrogate Recovery	86.1	%	50-150
Extractable TPH (ETPH)	Blank	<0.075	mg/l	
Extractable TPH (ETPH)	Lab Fort Blank Amt.	1.000	mg/l	
	Lab Fort Blk. Found	0.668	mg/l	
	Lab Fort Blk. % Rec.	66.800	%	60-120
	Dup Lab Fort Bl Amt.	1.000	mg/l	
	Dup Lab Fort Bl. Fnd	0.654	mg/l	
	Dup Lab Fort BI %Rec	65.459	%	
	Lab Fort Blank Range	1.340	units	
	Lab Fort Bl. Av. Rec	66.129	%	
	LFB Duplicate RPD	2.026	%	
	GC/FID-22911 Analysis Terphenyl Terphenyl Terphenyl Extractable TPH (ETPH)	Analysis QC Analysis Terphenyl Surrogate Recovery Terphenyl Surrogate Recovery Terphenyl Surrogate Recovery Extractable TPH (ETPH) Blank Extractable TPH (ETPH) Lab Fort Blank Amt. Lab Fort Blk. Found Lab Fort Blk. W Rec. Dup Lab Fort Bl Amt. Dup Lab Fort Bl Amt. Dup Lab Fort Bl MRec Lab Fort Blank Range Lab Fort Bl. Av. Rec	Analysis QC Analysis Values	Analysis QC Analysis Values Units



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009 Lims E	Bat # : LIMT-22446		Page (6 of 25
QC Batch Number	GCMS/VOL-21293				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B00194					
	1,2-Dichloroethane-d4	Surrogate Recovery	93.6	%	70-130
	Toluene-d8	Surrogate Recovery	100.1	%	70-130
	Bromofluorobenzene	Surrogate Recovery	97.8	%	70-130
09B00196					
	1,2-Dichloroethane-d4	Surrogate Recovery	92.0	%	70-130
	Toluene-d8	Surrogate Recovery	97.8	%	70-130
	Bromofluorobenzene	Surrogate Recovery	98.0	%	70-130
09B00199					
	1,2-Dichloroethane-d4	Surrogate Recovery	95.1	%	70-130
	Toluene-d8	Surrogate Recovery	98.8	%	70-130
	Bromofluorobenzene	Surrogate Recovery	98.6	%	70-130
BLANK-128420					
	Acetone	Blank	<5.0	ug/l	
	Benzene	Blank	<0.5	ug/l	
	Carbon Tetrachloride	Blank	<0.5	ug/l	
	Chloroform	Blank	0.6	ug/l	
	1,2-Dichloroethane	Blank	<0.5	ug/l	
	1,4-Dichlorobenzene	Blank	<0.5	ug/l	
	Ethyl Benzene	Blank	<0.5	ug/l	
	2-Butanone (MEK)	Blank	<2.0	ug/l	
	MIBK	Blank	<2.0	ug/l	
	Naphthalene	Blank	<0.5	ug/l	
	Styrene	Blank	<0.5	ug/l	
	Tetrachloroethylene	Blank	<0.5	ug/l	
	Toluene	Blank	<0.5	ug/l	
	1,1,1-Trichloroethane	Blank	<0.5	ug/l	
	Trichloroethylene	Blank	<0.5	ug/l	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.5	ug/l	
	Trichlorofluoromethane	Blank	<0.5	ug/l	
	o-Xylene	Blank	<0.5	ug/l	
	m + p Xylene	Blank	<1.0	ug/l	
	1,2-Dichlorobenzene	Blank	<0.5	ug/l	
	1,3-Dichlorobenzene	Blank	<0.5	ug/l	
	1,1-Dichloroethane	Blank	<0.5	ug/l	
	1,1-Dichloroethylene	Blank	<0.5	ug/l	
	1,4-Dioxane	Blank	<50.0	ug/l	
	MTBE	Blank	<0.5	ug/l	
	trans-1,2-Dichloroethylene	Blank	<0.5	ug/l	
	Vinyl Chloride	Blank	<0.5	ug/l	
	Methylene Chloride	Blank	<1.0	ug/l	
	Chlorobenzene	Blank	<0.5	ug/l	
	Chloromethane	Blank	<4.0	ug/l	
	Bromomethane	Blank	<5.0	ug/l	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009	Lims Bat #:	LIMT-22446		Page	7 of 25
QC Batch Number:	GCMS/VOL-21293					
Sample Id	Analysis	Q	C Analysis	Values	Units	Limits
BLANK-128420						
	Chloroethane	Bla	ink	<0.5	ug/l	
	cis-1,3-Dichloropropene	Bla	ink	<0.5	ug/l	
	trans-1,3-Dichloropropene	Bla	ink	<0.5	ug/l	
	Chlorodibromomethane	Bla	ink	<2.0	ug/l	
	1,1,2-Trichloroethane	Bla	ink	<0.5	ug/l	
	Bromoform	Bla	ınk	<3.0	ug/l	
	1,1,2,2-Tetrachloroethane	Bla	ınk	<0.5	ug/l	
	2-Chlorotoluene	Bla	ınk	<0.5	ug/l	
	Hexachlorobutadiene	Bla	ınk	<0.4	ug/l	
	Isopropylbenzene	Bla	ınk	<0.5	ug/l	
	p-Isopropyltoluene	Bla	ink	<0.5	ug/l	
	n-Propylbenzene	Bla	ınk	<0.5	ug/l	
	sec-Butylbenzene	Bla	ınk	<0.5	ug/l	
	tert-Butylbenzene	Bla	ınk	<0.5	ug/l	
	1,2,3-Trichlorobenzene	Bla	ınk	<0.5	ug/l	
	1,2,4-Trichlorobenzene	Bla	ınk	<0.5	ug/l	
	1,2,4-Trimethylbenzene	Bla	ınk	<0.5	ug/l	
	1,3,5-Trimethylbenzene	Bla	ınk	<0.5	ug/l	
	Dibromomethane	Bla	ınk	<0.5	ug/l	
	cis-1,2-Dichloroethylene	Bla	ınk	<0.5	ug/l	
	4-Chlorotoluene	Bla	ınk	<0.5	ug/l	
	1,1-Dichloropropene	Bla	ınk	<0.5	ug/l	
	1,2-Dichloropropane	Bla	ınk	<0.5	ug/l	
	1,3-Dichloropropane	Bla	ınk	<0.5	ug/l	
	2,2-Dichloropropane	Bla	ınk	<0.5	ug/l	
	1,1,1,2-Tetrachloroethane	Bla	ınk	<0.5	ug/l	
	1,2,3-Trichloropropane	Bla	ınk	<0.5	ug/l	
	n-Butylbenzene	Bla	ınk	<0.5	ug/l	
	Dichlorodifluoromethane	Bla		<0.5	ug/l	
	Bromochloromethane	Bla		<0.5	ug/l	
	Bromobenzene	Bla		<0.5	ug/l	
	Acrylonitrile	Bla		<2.0	ug/l	
	Carbon Disulfide	Bla		<0.5	ug/l	
	2-Hexanone	Bla		<2.0	ug/l	
	trans-1,4-Dichloro-2-Butene	Bla		<1.0	ug/l	
	Diethyl Ether	Bla		<0.5	ug/l	
	Bromodichloromethane	Bla		<0.5	ug/l	
	1,2-Dibromo-3-Chloropropane	Bla		<0.5	ug/l	
	1,2-Dibromoethane	Bla		<0.50	ug/l	
	Tetrahydrofuran	Bla		<5.0	ug/l	
	tert-Butyl Alcohol	Bla		<5.0	ug/l	
	Diisopropyl Ether	Bla		<0.5	ug/l	
	tert-Butylethyl Ether	Bla	ınk	<0.5	ug/l	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009	Lims Bat #: LIMT-22446	Page 8 of 25			
QC Batch Number	r: GCMS/VOL-21293					
Sample Id	Analysis	QC Analysis	Values	Units	Limits	
BLANK-128420						
	tert-Amylmethyl Ether	Blank	<0.5	ug/l		
	1,3,5-Trichlorobenzene	Blank	<1.0	ug/l		
FBLANK-90457						
	Acetone	Lab Fort Blank Amt.	100.0	ug/l		
		Lab Fort Blk. Found	77.3	ug/l		
		Lab Fort Blk. % Rec.	77.3	%	70-160	
	Benzene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	8.8	ug/l		
		Lab Fort Blk. % Rec.	88.8	%	70-130	
	Carbon Tetrachloride	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.4	ug/l		
		Lab Fort Blk. % Rec.	94.4	%	70-130	
	Chloroform	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	10.1	ug/l		
		Lab Fort Blk. % Rec.	101.1	%	70-130	
	1,2-Dichloroethane	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.4	ug/l		
		Lab Fort Blk. % Rec.	94.9	%	70-130	
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.4	ug/l		
		Lab Fort Blk. % Rec.	94.7	%	70-130	
	Ethyl Benzene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.9	ug/l		
		Lab Fort Blk. % Rec.	99.3	%	70-130	
	2-Butanone (MEK)	Lab Fort Blank Amt.	100.0	ug/l		
		Lab Fort Blk. Found	84.5	ug/l		
		Lab Fort Blk. % Rec.	84.5	%	40-160	
	MIBK	Lab Fort Blank Amt.	100.0	ug/l		
		Lab Fort Blk. Found	91.1	ug/l		
		Lab Fort Blk. % Rec.	91.1	%	70-160	
	Naphthalene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	7.4	ug/l		
		Lab Fort Blk. % Rec.	74.7	%	40-130	
	Styrene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	10.4	ug/l		
		Lab Fort Blk. % Rec.	104.0	%	70-130	
	Tetrachloroethylene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	10.3	ug/l		
		Lab Fort Blk. % Rec.	103.1	%	70-160	
	Toluene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.4	ug/l		
		Lab Fort Blk. % Rec.	94.2	%	70-130	
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	10.0	ug/l		



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009 Lims B	Lims Bat #: LIMT-22446		Page 9 of 25			
QC Batch Numbe	er: GCMS/VOL-21293						
Sample Id	Analysis	QC Analysis	Values	Units	Limits		
FBLANK-90457							
	1,1,1-Trichloroethane	Lab Fort Blk. Found	9.4	ug/l			
		Lab Fort Blk. % Rec.	94.4	%	70-130		
	Trichloroethylene	Lab Fort Blank Amt.	10.0	ug/l			
	·	Lab Fort Blk. Found	9.6	ug/l			
		Lab Fort Blk. % Rec.	96.7	%	70-130		
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	10.0	ug/l			
		Lab Fort Blk. Found	10.3	ug/l			
		Lab Fort Blk. % Rec.	103.1	%	70-130		
	Trichlorofluoromethane	Lab Fort Blank Amt.	10.0	ug/l			
		Lab Fort Blk. Found	10.0	ug/l			
		Lab Fort Blk. % Rec.	100.2	%	70-130		
	o-Xylene	Lab Fort Blank Amt.	10.0	ug/l			
		Lab Fort Blk. Found	9.8	ug/l			
		Lab Fort Blk. % Rec.	98.5	%	70-130		
	m + p Xylene	Lab Fort Blank Amt.	20.0	ug/l			
		Lab Fort Blk. Found	19.7	ug/l			
		Lab Fort Blk. % Rec.	98.9	%	70-130		
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l			
		Lab Fort Blk. Found	9.6	ug/l			
		Lab Fort Blk. % Rec.	96.1	%	70-130		
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l			
		Lab Fort Blk. Found	9.4	ug/l			
		Lab Fort Blk. % Rec.	94.7	%	70-130		
	1,1-Dichloroethane	Lab Fort Blank Amt.	10.0	ug/l			
		Lab Fort Blk. Found	9.3	ug/l			
		Lab Fort Blk. % Rec.	93.4	%	70-130		
	1,1-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l			
		Lab Fort Blk. Found	9.6	ug/l			
		Lab Fort Blk. % Rec.	96.8	%	70-130		
	1,4-Dioxane	Lab Fort Blank Amt.	100.0	ug/l			
		Lab Fort Blk. Found	88.0	ug/l			
		Lab Fort Blk. % Rec.	88.0	%	40-130		
	MTBE	Lab Fort Blank Amt.	10.0	ug/l			
		Lab Fort Blk. Found	8.5	ug/l			
		Lab Fort Blk. % Rec.	85.0	%	70-130		
	trans-1,2-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l			
		Lab Fort Blk. Found	7.8	ug/l			
		Lab Fort Blk. % Rec.	78.0	%	70-130		
	Vinyl Chloride	Lab Fort Blank Amt.	10.0	ug/l			
		Lab Fort Blk. Found	9.3	ug/l			
		Lab Fort Blk. % Rec.	93.0	%	40-160		
	Methylene Chloride	Lab Fort Blank Amt.	10.0	ug/l			
		Lab Fort Blk. Found	9.5	ug/l			



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009	Lims Bat #: LIMT-22446	Page 10 of 25			
QC Batch Number	: GCMS/VOL-21293					
Sample Id	Analysis	QC Analysis	Values	Units	Limits	
FBLANK-90457						
	Methylene Chloride	Lab Fort Blk. % Rec.	95.7	%	70-130	
	Chlorobenzene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.8	ug/l		
		Lab Fort Blk. % Rec.	98.4	%	70-130	
	Chloromethane	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	3.5	ug/l		
		Lab Fort Blk. % Rec.	35.2	%	40-160	
	Bromomethane	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	11.1	ug/l		
		Lab Fort Blk. % Rec.	111.7	%	40-160	
	Chloroethane	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.6	ug/l		
		Lab Fort Blk. % Rec.	96.1	%	70-130	
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l		
	, , ,	Lab Fort Blk. Found	9.1	ug/l		
		Lab Fort Blk. % Rec.	91.3	%	70-130	
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l		
	.,	Lab Fort Blk. Found	9.5	ug/l		
		Lab Fort Blk. % Rec.	95.4	%	70-130	
	Chlorodibromomethane	Lab Fort Blank Amt.	10.0	ug/l		
	omorealbromemeanane	Lab Fort Blk. Found	8.5	ug/l		
		Lab Fort Blk. % Rec.	85.7	%	70-130	
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	10.0	ug/l		
	1,1,2 111011101001111110	Lab Fort Blk. Found	9.6	ug/l		
		Lab Fort Blk. % Rec.	96.8	%	70-130	
	Bromoform	Lab Fort Blank Amt.	10.0	ug/l	70 100	
	Bromoreim	Lab Fort Blk. Found	9.3	ug/l		
		Lab Fort Blk. % Rec.	93.5	%	70-130	
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	10.0	ug/l	70-130	
	1, 1,2,2-1 etracinor detriane	Lab Fort Blk. Found	9.5	•		
		Lab Fort Blk. % Rec.	95.0	ug/l %	70-130	
	2-Chlorotoluene	Lab Fort Blank Amt.	10.0		70-130	
	2-Ciliorotoluerie			ug/l		
		Lab Fort Blk. Found Lab Fort Blk. % Rec.	9.5 95.7	ug/l %	70-130	
	Hexachlorobutadiene	Lab Fort Blank Amt.	10.0		70-130	
	i iexacilioroputadiene	Lab Fort Blank Amt. Lab Fort Blk. Found		ug/l		
			7.7	ug/l	70.400	
	laanran dhan	Lab Fort Blank Amt	77.2	%	70-130	
	Isopropylbenzene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	11.1	ug/l	70 400	
		Lab Fort Blk. % Rec.	111.1	%	70-130	
	p-Isopropyltoluene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.3	ug/l		
		Lab Fort Blk. % Rec.	93.8	%	70-130	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date: 1/13/2009		Lims Bat #: LIMT-22446	Page 11 of 25			
QC Batch Num	ber: GCMS/VOL-21293					
Sample Id	Analysis	QC Analysis	Values	Units	Limits	
LFBLANK-9045	57					
	n-Propylbenzene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.6	ug/l		
		Lab Fort Blk. % Rec.	96.2	%	70-130	
	sec-Butylbenzene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.4	ug/l		
		Lab Fort Blk. % Rec.	94.2	%	70-130	
	tert-Butylbenzene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.6	ug/l		
		Lab Fort Blk. % Rec.	96.3	%	70-130	
	1,2,3-Trichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.3	ug/l		
		Lab Fort Blk. % Rec.	93.9	%	70-130	
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	6.8	ug/l		
		Lab Fort Blk. % Rec.	68.2	%	70-130	
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.3	ug/l		
		Lab Fort Blk. % Rec.	93.3	%	70-130	
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	10.0	ug/l		
		Lab Fort Blk. % Rec.	100.9	%	70-130	
	Dibromomethane	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.4	ug/l		
		Lab Fort Blk. % Rec.	94.3	%	70-130	
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	8.7	ug/l		
		Lab Fort Blk. % Rec.	87.6	%	70-130	
	4-Chlorotoluene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.6	ug/l		
		Lab Fort Blk. % Rec.	96.6	%	70-130	
	1,1-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.2	ug/l		
		Lab Fort Blk. % Rec.	92.0	%	70-130	
	1,2-Dichloropropane	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.3	ug/l		
		Lab Fort Blk. % Rec.	93.9	%	70-130	
	1,3-Dichloropropane	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.1	ug/l		
		Lab Fort Blk. % Rec.	91.8	%	70-130	
	2,2-Dichloropropane	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	7.0	ug/l		
		Lab Fort Blk. % Rec.	70.1	%	40-130	
	1,1,1,2-Tetrachloroethane	Lab Fort Blank Amt.	10.0	ug/l		



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009	Lims Bat #: LIMT-22446	Page 12 of 25		
QC Batch Number	: GCMS/VOL-21293				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
FBLANK-90457					
	1,1,1,2-Tetrachloroethane	Lab Fort Blk. Found	10.4	ug/l	
		Lab Fort Blk. % Rec.	104.9	%	70-130
	1,2,3-Trichloropropane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.2	ug/l	
		Lab Fort Blk. % Rec.	92.5	%	70-130
	n-Butylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.2	ug/l	
		Lab Fort Blk. % Rec.	92.6	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.6	%	40-160
	Bromochloromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.2	%	70-130
	Bromobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.4	%	70-130
	Acrylonitrile	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	7.6	ug/l	
		Lab Fort Blk. % Rec.	76.7	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.4	ug/l	
		Lab Fort Blk. % Rec.	104.5	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	88.0	ug/l	
		Lab Fort Blk. % Rec.	88.0	%	70-160
	trans-1,4-Dichloro-2-Butene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.2	ug/l	
		Lab Fort Blk. % Rec.	82.4	%	70-130
	Diethyl Ether	Lab Fort Blank Amt.	10.0	ug/l	
	•	Lab Fort Blk. Found	10.4	ug/l	
		Lab Fort Blk. % Rec.	104.4	%	70-130
	Bromodichloromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.2	ug/l	
		Lab Fort Blk. % Rec.	92.2	%	70-130
	1,2-Dibromo-3-Chloropropane	Lab Fort Blank Amt.	10.0	ug/l	
	• •	Lab Fort Blk. Found	8.1	ug/l	
		Lab Fort Blk. % Rec.	81.9	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	10.00	ug/l	
		Lab Fort Blk. Found	9.66	ug/l	
		Lab Fort Blk. % Rec.	96.60	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	10.0	ug/l	
	-	Lab Fort Blk. Found	8.1	ug/l	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009	Lims Bat #: LIMT-22446		Page 13 of 25		
QC Batch Number	er: GCMS/VOL-21293					
Sample Id	Analysis	QC Analysis	Values	Units	Limits	
LFBLANK-90457						
	Tetrahydrofuran	Lab Fort Blk. % Rec.	81.6	%	70-130	
	tert-Butyl Alcohol	Lab Fort Blank Amt.	100.0	ug/l		
		Lab Fort Blk. Found	77.0	ug/l		
		Lab Fort Blk. % Rec.	77.0	%	40-160	
	Diisopropyl Ether	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	8.7	ug/l		
		Lab Fort Blk. % Rec.	87.1	%	70-130	
	tert-Butylethyl Ether	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	8.8	ug/l		
		Lab Fort Blk. % Rec.	88.5	%	70-160	
	tert-Amylmethyl Ether	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.2	ug/l		
		Lab Fort Blk. % Rec.	92.0	%	70-130	
	1,3,5-Trichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	9.4	ug/l		
		Lab Fort Blk. % Rec.	94.2	%	70-130	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009 Lims B.	Lims Bat #: LIMT-22446		Page 14 of 25		
QC Batch Number	GCMS/VOL-21294					
Sample Id	Analysis	QC Analysis	Values	Units	Limits	
09B00195						
	1,2-Dichloroethane-d4	Surrogate Recovery	93.0	%	70-130	
	Toluene-d8	Surrogate Recovery	100.3	%	70-130	
	Bromofluorobenzene	Surrogate Recovery	97.5	%	70-130	
BLANK-128422						
	Acetone	Blank	<5.0	ug/l		
	Benzene	Blank	<0.5	ug/l		
	Carbon Tetrachloride	Blank	<0.5	ug/l		
	Chloroform	Blank	1.1	ug/l		
	1,2-Dichloroethane	Blank	<0.5	ug/l		
	1,4-Dichlorobenzene	Blank	<0.5	ug/l		
	Ethyl Benzene	Blank	<0.5	ug/l		
	2-Butanone (MEK)	Blank	<2.0	ug/l		
	MIBK	Blank	<2.0	ug/l		
	Naphthalene	Blank	<0.5	ug/l		
	Styrene	Blank	<0.5	ug/l		
	Tetrachloroethylene	Blank	<0.5	ug/l		
	Toluene	Blank	<0.5	ug/l		
	1,1,1-Trichloroethane	Blank	<0.5	ug/l		
	Trichloroethylene	Blank	<0.5	ug/l		
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.5	ug/l		
	Trichlorofluoromethane	Blank	<0.5	ug/l		
	o-Xylene	Blank	<0.5	ug/l		
	m + p Xylene	Blank	<1.0	ug/l		
	1,2-Dichlorobenzene	Blank	<0.5	ug/l		
	1,3-Dichlorobenzene	Blank	<0.5	ug/l		
	1,1-Dichloroethane	Blank	<0.5	ug/l		
	1,1-Dichloroethylene	Blank	<0.5	ug/l		
	1,4-Dioxane	Blank	<50.0	ug/l		
	MTBE	Blank	<0.5	ug/l		
	trans-1,2-Dichloroethylene	Blank	<0.5	ug/l		
	Vinyl Chloride	Blank	<0.5	ug/l		
	Methylene Chloride	Blank	<1.0	ug/l		
	Chlorobenzene	Blank	<0.5	ug/l		
	Chloromethane	Blank	<4.0	ug/l		
	Bromomethane	Blank	<5.0	ug/l		
	Chloroethane	Blank	<0.5	ug/l		
	cis-1,3-Dichloropropene	Blank	<0.5	ug/l		
	trans-1,3-Dichloropropene	Blank	<0.5	ug/l		
	Chlorodibromomethane	Blank	<2.0	ug/l		
	1,1,2-Trichloroethane	Blank	<0.5	ug/l		
	Bromoform	Blank	<3.0	ug/l		
	1,1,2,2-Tetrachloroethane	Blank	<0.5	ug/l		
	2-Chlorotoluene	Blank	<0.5	ug/l		



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009	Lims Bat #: LIMT-22446		Page 15 of 25		
QC Batch Number:	GCMS/VOL-21294					
Sample Id	Analysis	QC Analysis	Values	Units	Limits	
BLANK-128422						
	Hexachlorobutadiene	Blank	<0.4	ug/l		
	Isopropylbenzene	Blank	<0.5	ug/l		
	p-Isopropyltoluene	Blank	<0.5	ug/l		
	n-Propylbenzene	Blank	<0.5	ug/l		
	sec-Butylbenzene	Blank	<0.5	ug/l		
	tert-Butylbenzene	Blank	<0.5	ug/l		
	1,2,3-Trichlorobenzene	Blank	<0.5	ug/l		
	1,2,4-Trichlorobenzene	Blank	<0.5	ug/l		
	1,2,4-Trimethylbenzene	Blank	<0.5	ug/l		
	1,3,5-Trimethylbenzene	Blank	<0.5	ug/l		
	Dibromomethane	Blank	<0.5	ug/l		
	cis-1,2-Dichloroethylene	Blank	<0.5	ug/l		
	4-Chlorotoluene	Blank	<0.5	ug/l		
	1,1-Dichloropropene	Blank	<0.5	ug/l		
	1,2-Dichloropropane	Blank	<0.5	ug/l		
	1,3-Dichloropropane	Blank	<0.5	ug/l		
	2,2-Dichloropropane	Blank	<0.5	ug/l		
	1,1,1,2-Tetrachloroethane	Blank	<0.5	ug/l		
	1,2,3-Trichloropropane	Blank	<0.5	ug/l		
	n-Butylbenzene	Blank	<0.5	ug/l		
	Dichlorodifluoromethane	Blank	<0.5	ug/l		
	Bromochloromethane	Blank	<0.5	ug/l		
	Bromobenzene	Blank	<0.5	ug/l		
	Acrylonitrile	Blank	<2.0	ug/l		
	Carbon Disulfide	Blank	<0.5	ug/l		
	2-Hexanone	Blank	<2.0	ug/l		
	trans-1,4-Dichloro-2-Butene	Blank	<1.0	ug/l		
	Diethyl Ether	Blank	<0.5	ug/l		
	Bromodichloromethane	Blank	<0.5	ug/l		
	1,2-Dibromo-3-Chloropropane	Blank	<0.5	ug/l		
	1,2-Dibromoethane	Blank	<0.50	ug/l		
	Tetrahydrofuran	Blank	<5.0	ug/l		
	tert-Butyl Alcohol	Blank	<5.0	ug/l		
	Diisopropyl Ether	Blank	<0.5	ug/l		
	tert-Butylethyl Ether	Blank	<0.5	ug/l		
	tert-Amylmethyl Ether	Blank	<0.5	ug/l		
	1,3,5-Trichlorobenzene	Blank	<1.0	ug/l		
FBLANK-90459				J		
	Acetone	Lab Fort Blank Amt.	100.0	ug/l		
	·- ·	Lab Fort Blk. Found	85.4	ug/l		
		Lab Fort Blk. % Rec.	85.4	%	70-160	
	Benzene	Lab Fort Blank Amt.	10.0	ug/l		
		Lab Fort Blk. Found	8.8	ug/l		



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009 L	ims Bat #: LIMT-22446	Page 16 of 25		
QC Batch Number	r: GCMS/VOL-21294				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
FBLANK-90459					
	Benzene	Lab Fort Blk. % Rec.	88.9	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.9	ug/l	
		Lab Fort Blk. % Rec.	99.0	%	70-130
	Chloroform	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.4	ug/l	
		Lab Fort Blk. % Rec.	104.8	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.2	ug/l	
		Lab Fort Blk. % Rec.	92.2	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.3	ug/l	
		Lab Fort Blk. % Rec.	93.7	%	70-130
	Ethyl Benzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.6	%	70-130
	2-Butanone (MEK)	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	88.6	ug/l	
		Lab Fort Blk. % Rec.	88.6	%	40-160
	MIBK	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	92.9	ug/l	
		Lab Fort Blk. % Rec.	92.9	%	70-160
	Naphthalene	Lab Fort Blank Amt.	10.0	ug/l	
	·	Lab Fort Blk. Found	7.0	ug/l	
		Lab Fort Blk. % Rec.	70.0	%	40-130
	Styrene	Lab Fort Blank Amt.	10.0	ug/l	
	,	Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.6	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
	,	Lab Fort Blk. Found	9.9	ug/l	
		Lab Fort Blk. % Rec.	99.9	%	70-160
	Toluene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.3	ug/l	
		Lab Fort Blk. % Rec.	93.3	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
	, ,	Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.3	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
) -	Lab Fort Blk. Found	9.1	ug/l	
		Lab Fort Blk. % Rec.	91.7	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroetha		10.0	ug/l	
	, ,=	Lab Fort Blk. Found	10.2	ug/l	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009	Lims Bat #: LIMT-22446	Page 17 of 25		
QC Batch Number	er: GCMS/VOL-21294				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
FBLANK-90459)				
	Trichlorofluoromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.8	ug/l	
		Lab Fort Blk. % Rec.	98.5	%	70-130
	o-Xylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.3	%	70-130
	m + p Xylene	Lab Fort Blank Amt.	20.0	ug/l	
		Lab Fort Blk. Found	19.4	ug/l	
		Lab Fort Blk. % Rec.	97.0	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.0	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.3	ug/l	
		Lab Fort Blk. % Rec.	93.6	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.4	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
	•	Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.6	%	70-130
	1,4-Dioxane	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	84.1	ug/l	
		Lab Fort Blk. % Rec.	84.1	%	40-130
	MTBE	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.2	ug/l	
		Lab Fort Blk. % Rec.	92.8	%	70-130
	trans-1,2-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
	•	Lab Fort Blk. Found	8.5	ug/l	
		Lab Fort Blk. % Rec.	85.4	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	10.0	ug/l	
	•	Lab Fort Blk. Found	8.3	ug/l	
		Lab Fort Blk. % Rec.	83.9	%	40-160
	Methylene Chloride	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.0	ug/l	
		Lab Fort Blk. % Rec.	90.6	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.6	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	3.8	ug/l	
		Lab Fort Blk. % Rec.	38.7	%	40-160
	Bromomethane	Lab Fort Blank Amt.	10.0	ug/l	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009	Lims Bat #: LIMT-22446	Page 18 of 25		
C Batch Number	: GCMS/VOL-21294				
ample Id	Analysis	QC Analysis	Values	Units	Limits
FBLANK-90459					
	Bromomethane	Lab Fort Blk. Found	9.8	ug/l	
		Lab Fort Blk. % Rec.	98.5	%	40-160
	Chloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.2	ug/l	
		Lab Fort Blk. % Rec.	92.7	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.9	ug/l	
		Lab Fort Blk. % Rec.	99.1	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.5	ug/l	
		Lab Fort Blk. % Rec.	105.6	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.9	ug/l	
		Lab Fort Blk. % Rec.	89.8	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.3	ug/l	
		Lab Fort Blk. % Rec.	93.3	%	70-130
	Bromoform	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.9	ug/l	
		Lab Fort Blk. % Rec.	99.3	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.7	%	70-130
	2-Chlorotoluene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.0	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	7.5	ug/l	
		Lab Fort Blk. % Rec.	75.4	%	70-130
	Isopropylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.8	ug/l	
		Lab Fort Blk. % Rec.	108.8	%	70-130
	p-Isopropyltoluene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.7	%	70-130
	n-Propylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
	-1.7	Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.5	%	70-130
	sec-Butylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.2	%	70-130
	tert-Butylbenzene	Lab Fort Blank Amt.	10.0	ug/l	. 3
	201,.201.20110	Lab Fort Blk. Found	9.4	~ . .	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009	Lims Bat #: LIMT-22446	Page 19 of 25					
QC Batch Number	er: GCMS/VOL-21294							
Sample Id	Analysis	QC Analysis	Values	Units	Limits			
FBLANK-90459)							
	tert-Butylbenzene	Lab Fort Blk. % Rec.	94.7	%	70-130			
	1,2,3-Trichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	8.7	ug/l				
		Lab Fort Blk. % Rec.	87.9	%	70-130			
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	6.4	ug/l				
		Lab Fort Blk. % Rec.	64.3	%	70-130			
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	9.2	ug/l				
		Lab Fort Blk. % Rec.	92.3	%	70-130			
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	10.0	ug/l				
		Lab Fort Blk. % Rec.	100.5	%	70-130			
	Dibromomethane	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	9.4	ug/l				
		Lab Fort Blk. % Rec.	94.6	%	70-130			
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	8.8	ug/l				
		Lab Fort Blk. % Rec.	88.2	%	70-130			
	4-Chlorotoluene	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	9.6	ug/l				
		Lab Fort Blk. % Rec.	96.3	%	70-130			
	1,1-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	9.2	ug/l				
		Lab Fort Blk. % Rec.	92.1	%	70-130			
	1,2-Dichloropropane	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	9.4	ug/l				
		Lab Fort Blk. % Rec.	94.2	%	70-130			
	1,3-Dichloropropane	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	9.1	ug/l				
		Lab Fort Blk. % Rec.	91.3	%	70-130			
	2,2-Dichloropropane	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	9.5	ug/l				
		Lab Fort Blk. % Rec.	95.6	%	40-130			
	1,1,1,2-Tetrachloroethane	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	10.5	ug/l				
		Lab Fort Blk. % Rec.	105.8	%	70-130			
	1,2,3-Trichloropropane	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	8.8	ug/l				
		Lab Fort Blk. % Rec.	88.6	%	70-130			
	n-Butylbenzene	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	9.5	ug/l				
		Lab Fort Blk. % Rec.	95.7	%	70-130			



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009	Lims Bat #: LIMT-22446	Page 20 of 25					
QC Batch Number	r: GCMS/VOL-21294							
Sample Id	Analysis	QC Analysis	Values	Units	Limits			
LFBLANK-90459								
	Dichlorodifluoromethane	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	8.5	ug/l				
		Lab Fort Blk. % Rec.	85.5	%	40-160			
	Bromochloromethane	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	9.6	ug/l				
		Lab Fort Blk. % Rec.	96.0	%	70-130			
	Bromobenzene	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	9.6	ug/l				
		Lab Fort Blk. % Rec.	96.6	%	70-130			
	Acrylonitrile	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	8.4	ug/l				
		Lab Fort Blk. % Rec.	84.8	%	70-130			
	Carbon Disulfide	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	10.4	ug/l				
		Lab Fort Blk. % Rec.	104.3	%	70-130			
	2-Hexanone	Lab Fort Blank Amt.	100.0	ug/l				
		Lab Fort Blk. Found	90.5	ug/l				
		Lab Fort Blk. % Rec.	90.5	%	70-160			
	trans-1,4-Dichloro-2-Butene	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	9.1	ug/l				
		Lab Fort Blk. % Rec.	91.2	%	70-130			
	Diethyl Ether	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	9.8	ug/l				
		Lab Fort Blk. % Rec.	98.0	%	70-130			
	Bromodichloromethane	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	9.5	ug/l				
		Lab Fort Blk. % Rec.	95.0	%	70-130			
	1,2-Dibromo-3-Chloropropane	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	9.1	ug/l				
		Lab Fort Blk. % Rec.	91.3	%	70-130			
	1,2-Dibromoethane	Lab Fort Blank Amt.	10.00	ug/l				
		Lab Fort Blk. Found	9.51	ug/l				
		Lab Fort Blk. % Rec.	95.10	%	70-130			
	Tetrahydrofuran	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	8.0	ug/l				
		Lab Fort Blk. % Rec.	80.3	%	70-130			
	tert-Butyl Alcohol	Lab Fort Blank Amt.	100.0	ug/l				
		Lab Fort Blk. Found	75.4	ug/l				
		Lab Fort Blk. % Rec.	75.4	%	40-160			
	Diisopropyl Ether	Lab Fort Blank Amt.	10.0	ug/l				
		Lab Fort Blk. Found	9.0	ug/l				
		Lab Fort Blk. % Rec.	90.0	%	70-130			



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009	Lims Bat #: LIMT-22446		Page 21 of 25					
QC Batch Numb	per: GCMS/VOL-21294								
Sample Id	Analysis	QC Analysis	Values	Units	Limits				
LFBLANK-90459	9								
	tert-Butylethyl Ether	Lab Fort Blk. Found	9.1	ug/l					
		Lab Fort Blk. % Rec.	91.1	%	70-160				
	tert-Amylmethyl Ether	Lab Fort Blank Amt.	10.0	ug/l					
		Lab Fort Blk. Found	9.5	ug/l					
		Lab Fort Blk. % Rec.	95.0	%	70-130				
	1,3,5-Trichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l					
		Lab Fort Blk. Found	9.6	ug/l					
		Lab Fort Blk. % Rec.	96.7	%	70-130				



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009	Lims Bat #: LIMT-22446		Page 22 of 25					
QC Batch Numbe	r: HG-9766								
Sample Id	Analysis	QC Analysis	Values	Units	Limits				
BLANK-128335									
	Mercury	Blank	<0.00010	mg/l					
FBLANK-90352									
	Mercury	Lab Fort Blank Amt.	0.00200	mg/l					
		Lab Fort Blk. Found	0.00203	mg/l					
		Lab Fort Blk. % Rec.	101.95000	%	85-115				



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/13/2009	Lims Bat #: LIMT-22446		Page	23 of 25
QC Batch Numbe	r: WETCHEM-14301				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B00196					
	Chromium (+6)	Sample Amount	<0.004	mg/l	
		Matrix Spk Amt Added	0.100	mg/l	
		MS Amt Measured	0.098	mg/l	
		Matrix Spike % Rec.	98.000	%	75-125
		MSD Amount Added	0.100	mg/l	
		MSD Amt Measured	0.096	mg/l	
		MSD % Recovery	96.000	%	
		MSD Range	2.000	units	
		MS Duplicate RPD	2.061	%	0-20
BLANK-128383					
	Chromium (+6)	Blank	0.004	mg/l	
LFBLANK-90362					
	Chromium (+6)	Lab Fort Blank Amt.	0.100	mg/l	
		Lab Fort Blk. Found	0.102	mg/l	
		Lab Fort Blk. % Rec.	102.000	%	
STDADD-35140					
	Chromium (+6)	Standard Measured	0.100	mg/l	
		Standard Amt Added	0.100	mg/l	
		Standard % Recovery	100.000	%	80-120



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/13/2009 Lims Bat #: LIMT-22446 Page 24 of 25

NOTES:

QC Batch No.: WETCHEM-14301

Sample ID : 09B00196
Analysis : Chromium (+6)
Sample duplicate = <0.004 mg/L
Analyzed at 4:45 PM



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/13/2009 Lims Bat #: LIMT-22446 Page 25 of 25

OUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

This is the number assigned to all samples analyzed together that QC BATCH NUMBER

would be subject to comparison with a particular set of Quality

Control Data.

Upper and Lower Control Limits for the QC ANALYSIS Reported. All LIMITS

values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY

REPORT. Not all QC results will have Limits defined.

Sample Amount Amount of analyte found in a sample.

Method Blank that has been taken though all the steps of the Blank

an alysis.

LFBLANK Laboratory Fortified Blank (a control sample)

STDADD Standard Added (a laboratory control sample)

Matrix Spk Amt Added

Amount of analyte spiked into a sample Amount of analyte found including amount that was spiked MS Amt Measured

% Recovery of spiked amount in sample. Matrix Spike % Rec.

Duplicate Value The result from the Duplicate analysis of the sample.

Duplicate RPD The Relative Percent Difference between two Duplicate Analyses.

The % Recovery for non-environmental compounds (surrogates) Surrogate Recovery

spiked into samples to determine the performance of

an alytical methods.

Surrogate Recovery on the Electrolytic Conductivity Detector. Sur. Recovery (ELCD)

Sur. Recovery (PID) Surrogate Recovery on the Photoionization Detector.

Standard Measured Amount measured for a laboratory control sample

Standard Amt Added

Known value for a laboratory control sample % recovered for a laboratory control sample with a known value. Standard % Recovery

Lab Fort Blank Amt Laboratory Fortified Blank Amount Added Lab Fort Blk. Found Laboratory Fortified Blank Amount Found

Lab Fort Blk % Rec Laboratory Fortified Blank % Recovered

Duplicate Laboratory Fortified Blank Amount Added Dup Lab Fort Bl Amt Duplicate Laboratory Fortified Blank Amount Found Dup Lab Fort Bl Fnd

Duplicate Laboratory Fortified Blank % Recovery Dup Lab Fort Bl % Rec Lab Fort Blank Range

Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified

Blank Duplicate).

Lab Fort Bl. Av. Rec. Laboratory Fortified Blank Average Recovery

Duplicate Sample Amt Sample Value for Duplicate used with Matrix Spike Duplicate

MSD Amount Added Matrix Spike Duplicate Amount Added (Spiked)

MSD Amt Measured Matrix Spike Duplicate Amount Measured

MSD % Recovery Matrix Spike Duplicate % Recovery

MSD Range Absolute difference between Matrix Spike and Matrix Spike

Duplicate Recoveries



REASONABLE CONFIDENCE PROTOCOL

LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

	Client: METCALF & EDDY
Project Location: 80 HASTINGS ST. BRIDGEPORT	Project Number: LIM T-22446
Laboratory Sample ID(s): 09B00194-09B00199	Sampling Date(s): 1/6/09
List RCP Methods Used (e.g., 8260, 8270, et cetera) 7/96, 60	20, ETPH, 9014,8260, 7470

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	AVes □ No
1 A	Were the method specified preservation and holding time requirements met?	yoYes □ No
1B	VPH and EPH Methods only: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	□Yes □ No AN/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	ydYes □ No
3	Were samples received at an appropriate temperature (<6° °C°)?	MaYes □ No □N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	□Yes X No
5	a) Were reporting limits specified or referenced on the chain-of-custody?	□Yes No
ر	b) Were these reporting limits met?	□Yes □ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	□Yes ≱ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	s≪Ves □ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered and all questions must be answered.

	as and penalties of perjury that, to the best of my
	personal inquiry of those responsible for providing
the information contained in this analytical	I report, such information is accurate and complete.
Authorized Signature: Edward De	
Printed Name: Edward Denson	Date:
Name of Laboratory: CON-TEST ANALY	TICAL LABORATORY
	•

This certification form is to be used for RCP methods only.

ANALYTICAL LABORATORY	con-test

Fax: 413-525-6405 Phone: 413-525-2332

Email: info@contestlabs.com

JA468 # 20146

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR EAST LONGMEADOW, MA 01028

Company 1 cm 4	Received by: (signature)		Belinquished by: (suppeture)		Received by: (signature)		Relinquished by: (signature)	+ chanical for more it more		Laboratory Comments:		\$ 7 K	J.M.	MINT DUP CURTICEN	Mw-1 10.00		MW-IDER	1 W	Field ID Sample Description		Proposal Provided? (For Billing purposes)		Sampled By:	Project Location: Bring	Attention: Chok			Address:	Company Name:	
V610つ V5 ひ *Require lab approval	Date/Time:	1/6/07 T 0*24-Hr 0*48-Hr	Date/Time: ///S RUSH *		Date/Time; 10-		Date/Time: Turnaround ***	INMUTUDE OUND IN IN MY ON ONLINE		in various of a compile for HIP The DPIS MUT	00(93	1000 B		1 CMPK00198 /:/	1 00M 01/05 1	36100	00195	00194 0106 01	Lab # Off On Date/Time Date	☐ yes ☐ no ☐ Date Sampled	State Form Required?	Format: 4		ed 80 Hasting Fax #:	SHOPS DATA DELIV	C1 C8492 SHOW OF	Client DO #	Project #	Telephone:(Te))	www.contestlabs.com
approval	-Day	8-Hr Special Requirements or DL's:		Data Enhancement Project/RCP?		Regulations?	nd ** Detection Limit Requirements	H - High; M - Medium; L - Low;	be high	Please		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			200 b	× ×		of of the same of	Stop Comp- *Matrix Conc.	pled	OOTHER	□ PDF □ GIS KEY	Share to a reconden	BEMAIL JWEBSIE CLENI	check one):			60045451	3) 141 2818	
O = other	SL = sludge	S = soil/solid	A = air	☐ N DW= drinking water	ww= wastewater	GW → groundwater	*Matrix Code:	ow; C - Clean; U - Unknown	in concentration in Matrix/Conc. Code Box:	use the following codes to let Con-Test know if a specific sample may				× ×	× ×	× ×	<u> </u>	×	B	P	K P1 6A2			E	1		ANAI VOIG BEOLIECTED			
O = Other	B = Sodium bisulfate	S = Sulfuric Acid	N = Nitric Acid	anol	Г	I = Iced X = Na hydroxide	**Preservation Codes:			3 specific sample may							`	Comments:		O=Other	T =tedlar bag	S=summa can	V: via	Fzpiasnc ST=sterile	G=gless	A=amber glass		~Cont.Code	**Preservation	# of containers

* Require lab approval

www.contestlabs.com



Sample Receipt Checklist

39 Spruce St. East Longmeadow, MA. 01028

P: 413-525-2332 F: 413-525-6405

CLIENT NAME: METCALLY	EDDA	_ RECEIVED BY:_	<u> Ko</u> DA'	TE: 1/6/09
1) Was the chain(s) of sustadu	rolinguiched and sig	nod?	Yana Na	
 Was the chain(s) of custody Does the chain agree with the 		neur	Yes No	•
If not, explain:	s samples :		Yes No	
3) Are all the samples in good c	ondition? .		Yes No	
4) How were the samples receiv	ved:			
On Ice Direct from S	***************************************	Ambient	In Copler(s)	
Were the samples received in T		nce of (2-6°C)?	(Yes) No	
Temperature °C by Temp blank _		Temperature °C I		
5) Are there Dissolved samples	for the lab to filter?		Yes (No)	
Who was notified		Time		
6) Are there any samples "On H			Yes (No) Sto	red where:
7) Are there any RUSH or SHOR	T HOLDING TIME sa	mples?	(Yes) No	<u> </u>
Who was notified Amelo	Date <u>176</u>	Time <u>\ 6.3</u>	30	
8) Location where samples are	stored: 19B	i I		ct samples? Yes No
	*	(Wall	k-in clients only) if no	ot already approved
Add of the state o		Clien	t Signature:	
SE MINICA PARE DE PROPERTO DE PROPERTO DE PROPERTO DE PROPERTO DE PROPERTO DE PROPERTO DE PROPERTO DE PROPERTO DE PROPERTO DE PROPERTO DE PROPERTO DE PROPERTO DE PROPERTO DE PROPERTO DE PROPERTO DE PROPERTO DE PROPERTO DE	^		Angula d	
	Containers se	ent in to Co	<u>n-rest</u>	
1 i itan Amahaw	# of containers	1		# of containers
1 Liter Amber			oz clear jar	
500 mL Amber	<u> </u>	2000	oz clear jar	
250 mL Amber (8oz amber) 1 Liter Plastic			oz clear jar	
500 mL Plastic			tic Rag / Ziplos	
250 mL plastic	114		tic Bag / Ziploc .ir Cassette	
40 mL Vial - type listed below			ass Sleeves	
Colisure / bacteria bottle			Tubes	
Dissolved Oxygen bottle		Q,	umma Cans	
Flashpoint bottle			Regulators	
Encore			Other	
			OGICI	
Laboratory Comments:				
40 mL vials: # HCI 12	# Methanol		· · · · · · · · · · · · · · · · · · ·	
	# DI Water		and Date Frozen: _	
# Thiosulfate	Unpreserved			
Oo all samples have the proper p	oH: Yes No N/A	Ph/2 = me	tals Ph<12	= T-CN



REPORT DATE 1/14/2009

METCALF & EDDY - WALLINGFORD 860 N. MAIN STREET EXTENSION WALLINGFORD, CT 06492 ATTN: DANIEL SERMET

CONTRACT NUMBER: PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-22477

JOB NUMBER: 60045450.04

PROJECT LOCATION: 80 HASTINGS ST., BRIDGEPORT, CT

ELD SAMPLE # LAB ID MATRIX SAMPLE DESCRIPTION		SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.	
SB-12	09B00341	SOIL	Not Specified	etph dry weight	
SB-16	09B00342	SOIL	Not Specified	chromium 6 drywt	
SB-16 DUP	09B00348	SOIL	Not Specified	chromium 6 drywt	
SB-16 DUP	09B00348	SOIL	Not Specified	splp - arsenic	
SB-16 DUP	09B00348	SOIL	Not Specified	splp - cd low	
SB-16 DUP	09B00348	SOIL	Not Specified	splp - chromium	
SB-16 DUP	09B00348	SOIL	Not Specified	splp - copper	
SB-16 DUP	09B00348	SOIL	Not Specified	splp - lead icp	
SB-16 DUP	09B00348	SOIL	Not Specified	splp - nickel	
SB-16 DUP	09B00348	SOIL	Not Specified	splp - zinc	
SB-21	09B00343	SOIL	Not Specified	splp - arsenic	
SB-28	09B00344	SOIL	Not Specified	splp - arsenic	
SB-29	09B00345	SOIL	Not Specified	splp - arsenic	
SB-30	09B00346	SOIL	Not Specified	splp - lead icp	
SB-32	09B00347	SOIL	Not Specified	splp - lead icp	



REPORT DATE 1/14/2009

METCALF & EDDY - WALLINGFORD 860 N. MAIN STREET EXTENSION WALLINGFORD, CT 06492

ATTN: DANIEL SERMET

CONTRACT NUMBER: PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-22477

JOB NUMBER: 60045450.04

Comments:

LIMS BATCH NO.: LIMT-22477

CASE NARRATIVE SUMMARY

Recommended sample holding times were not exceeded for all samples unless listed below: None Exceeded

All samples for the method(s) listed were received preserved properly in the proper containers at $4^{\circ}C$ +/- 2 degrees as specified on the chain-of-custody form unless listed below: All properly preserved

There are no (other) analytical issues which affect the usability of the data.

DETAILED CASE NARRATIVE

METHOD SW846-7196A SOLID MATRIX - ADDITIONAL DETAILS

All 7196A SOLUBLE matrix spike and matrix spike duplicate recoveries, sample duplicate RPDs and MSDRPDs, if requested in this batch were within control limits specified by the method and are reported in the QC summary section of this report unless listed below and/or otherwise listed in this narrative.

For sample 09B00348 the matrix spike duplicate recovery is outside of control limits, but the matrix spike was within control limits. Outlier should be reviewed as a one time anomely.

All 7196A INSOLUBLE matrix spike recoveries are listed below and are within control limits specified by the method unless otherwise specified in this narrative.

SAMPLE NUMBER INSOLUBLE MATRIX SPIKE RECOVERY

09B00348 74.8 %

All post digestion matrix spikes were within control limits specified by the method unless otherwise listed in this narrative.

SAMPLE POST DIGESTION MATRIX SPIKE RECOVERY

009B00348 119.7 %

Results for required pH and ORP (oxidation reduction potential) measurements for a sample representative of the matrix in this batch are listed below:

Sample number tested that is pH ORP representative of matrix type

09B00342 6.93 208 MV 09B00343 7.07 197 MV

pH and ORP measurements (are) indicative of reducing conditions in the sample matrix type.

Failing matrix spike recovery data do not warrant reanalysis since reducing conditions are present in the sample matrix.

[·] Reporting limits were raised due to sample dilutions unless indicated below:



REPORT DATE 1/14/2009

METCALF & EDDY - WALLINGFORD 860 N. MAIN STREET EXTENSION WALLINGFORD, CT 06492 ATTN: DANIEL SERMET

CONTRACT NUMBER: PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #:

LIMT-22477

JOB NUMBER: 60045450.04

Sample 09B00342

10X 10X

Sample 09B00348

METHOD SW846-6010 - ADDITIONAL DETAILS

A matrix spike performed on sample 09B00345.

Only As was requested and reported for samples 09B00343, 09B00344, and 09B00345. Only As, Cd, Cr, Cu, Pb, Ni and Zn were requested and reported for sample 09B00348. Only Pb was requested and reported for samples 09B00346 and 09B00347.

CT ETPH METHOD - ADDITIONAL COMMENTS

All CT ETPH samples were analyzed undiluted unless specified below: No dilutions were performed.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033

AIHA ELLAP (LEAD) 100033

NORTH CAROLINA CERT. # 652

MASSACHUSETTS MA0100

NEW HAMPSHIRE NELAP 2516

NEW JERSEY NELAP NJ MA007 (AIR)

CONNECTICUT PH-0567

VERMONT DOH (LEAD) No. LL015036

FLORIDA DOH E871027 (AIR)

NEW YORK ELAP/NELAP 10899

RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod Kopyscinski

Michael Erickson

Air Laboratory Manager

Assistant Laboratory Director

Edward Denson

Daren Damboragian

Technical Director

Organics Department Supervisor

^{*} See end of data tabulation for notes and comments pertaining to this sample



DANIEL SERMET

METCALF & EDDY - WALLINGFORD 1/14/2009
860 N. MAIN STREET EXTENSION Page 1 of 10

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22477

Date Received: 1/7/2009 Job Number: 60045450.04

Field Sample #: SB-16

Not Specified

Sample Matrix: SOIL

Units Date RL SPEC Limit P/F Results Analyst Analyzed Lo Hi Chromium (+6) mg/kg dry wt 12.2 01/13/09 SBP 0.71

Extraction Date CR+6 1/12/2009 01/13/09 SBP

Field Sample #: SB-16 DUP

Sample ID: 09B00348 ‡Sampled: 12/22/2009

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/F Analyzed Lo Hi Chromium (+6) 01/13/09 mg/kg dry wt 15.0 SBP 0.73 Extraction Date CR+6 1/12/2009 01/13/09 SBP

Analytical Method:

SW846 7196

ALKALINE DIGESTION BY SW846 3060A OF SOLID FOLLOWED BY COLORIMETRIC ANALYSIS WITH S-DIPHENYLCARBAZIDE.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SERMET

METCALF & EDDY - WALLINGFORD 1/14/2009
860 N. MAIN STREET EXTENSION Page 2 of 10

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22477

Date Received: 1/7/2009 Job Number: 60045450.04

Field Sample #: SB-12

Sample ID: 09B00341 ‡Sampled: 12/22/2009

Not Specified

Sample Matrix: SOIL

Units RL SPEC Limit P/F Results Date Analyst Analyzed Lo Ηi Extractable TPH (ETPH) mg/kg dry weight 110 01/09/09 PJG 59

Analytical Method:

Extractable TPH (CT ETPH)

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE AND ANALYZED BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION (GC/FID).

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SERMET

METCALF & EDDY - WALLINGFORD 1/14/2009
860 N. MAIN STREET EXTENSION Page 3 of 10

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22477

Date Received: 1/7/2009 Job Number: 60045450.04

Field Sample #: SB-16 DUP

Sample ID: 09B00348 ‡Sampled: 12/22/2009

Not Specified

Sample Matrix: SOIL

Units SPEC Limit P/F Results Date Analyst RL Analyzed Hi Lo Arsenic mg/l leachate ND 01/14/09 OP 0.010 5 Ρ

Field Sample #: SB-21

Not Specified

Sample Matrix: SOIL

Units Results Date RL SPEC Limit P/F Analyst Analyzed Lo Hi 5 Р Arsenic mg/l leachate ND 01/14/09 OP 0.010

Field Sample #: SB-28

Sample ID: 09B00344 ‡Sampled: 12/22/2009

Not Specified

Sample Matrix: SOIL

Units Results Date SPEC Limit P/F Analyst RL Analyzed Lo Hi Arsenic mg/l leachate ND 01/14/09 OP 0.010 5

Field Sample #: SB-29

Sample ID: 09B00345 ‡Sampled: 12/22/2009

Not Specified

Sample Matrix: SOIL

Units SPEC Limit P/F Results Date Analyst RL Analyzed Lo Hi Arsenic mg/l leachate ND 01/14/09 OP 0.010 5 Ρ

Analytical Method: SW 846 1312/6010

SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP). SAMPLES ARE LEACHED FOR 16-20 HOURS IN THE APPROPRIATE LEACHING SOLUTION ACCORDING TO SPLP AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY. WATER SAMPLES ARE FILTERED, NOT EXTRACTED.

RL = Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

ND = Not Detected at or above the Reporting Limit

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SERMET

METCALF & EDDY - WALLINGFORD 1/14/2009
860 N. MAIN STREET EXTENSION Page 4 of 10

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22477

Date Received: 1/7/2009 Job Number: 60045450.04

Field Sample #: SB-16 DUP

Not Specified

Sample Matrix: SOIL

Units SPEC Limit P/F Results Date Analyst RL Analyzed Lo Hi Cadmium mg/l leachate ND 01/14/09 OP 0.005

Analytical Method:

SW 846 1312/6010

SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP). SAMPLES ARE LEACHED FOR 16-20 HOURS IN THE APPROPRIATE LEACHING SOLUTION ACCORDING TO SPLP AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY. WATER SAMPLES ARE FILTERED, NOT EXTRACTED.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SERMET

METCALF & EDDY - WALLINGFORD 1/14/2009
860 N. MAIN STREET EXTENSION Page 5 of 10

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22477

Date Received: 1/7/2009 Job Number: 60045450.04

Field Sample #: SB-16 DUP

Not Specified

Sample Matrix: SOIL

	Units	Results	Date	Analyst	RL	SPEC	Limit	P/F	
			Analyzed			Lo	Hi		
Chromium	mg/l leachate	0.03	01/14/09	OP	0.01		5	Р	-

Analytical Method:

SW 846 1312/6010

SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP). SAMPLES ARE LEACHED FOR 16-20 HOURS IN THE APPROPRIATE LEACHING SOLUTION ACCORDING TO SPLP AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY. WATER SAMPLES ARE FILTERED, NOT EXTRACTED.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SERMET

METCALF & EDDY - WALLINGFORD 1/14/2009
860 N. MAIN STREET EXTENSION Page 6 of 10

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22477

Date Received: 1/7/2009 Job Number: 60045450.04

Field Sample #: SB-16 DUP

Not Specified

Sample Matrix: SOIL

	Units	Results	Date	Analyst	RL	SPEC	Limit	P/F
			Analyzed			Lo	Hi	
Copper	mg/l leachate	ND	01/14/09	OP	0.01			

Analytical Method:

SW 846 1312/6010

SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP). SAMPLES ARE LEACHED FOR 16-20 HOURS IN THE APPROPRIATE LEACHING SOLUTION ACCORDING TO SPLP AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY. WATER SAMPLES ARE FILTERED, NOT EXTRACTED.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SERMET

METCALF & EDDY - WALLINGFORD 1/14/2009
860 N. MAIN STREET EXTENSION Page 7 of 10

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22477

Date Received: 1/7/2009 Job Number: 60045450.04

Field Sample #: SB-16 DUP

Not Specified

Sample Matrix: SOIL

Units SPEC Limit P/F Results Date Analyst RL Analyzed Hi Lo Lead mg/l leachate ND 01/14/09 OP 0.015 5 Ρ

Field Sample #: SB-30

Not Specified

Sample Matrix: SOIL

Units Results Date RL SPEC Limit P/F Analyst Analyzed Lo Hi 01/14/09 5 Р Lead mg/l leachate 0.059 OP 0.015

Field Sample #: SB-32

Not Specified

Sample Matrix: SOIL

Units Results Date RLSPEC Limit P/F Analyst Analyzed Lo Hi 0.160 5 Ρ Lead mg/l leachate 01/14/09 OP 0.015

Analytical Method:

SW 846 1312/6010

SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP). SAMPLES ARE LEACHED FOR 16-20 HOURS IN THE APPROPRIATE LEACHING SOLUTION ACCORDING TO SPLP AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY. WATER SAMPLES ARE FILTERED, NOT EXTRACTED.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SERMET

METCALF & EDDY - WALLINGFORD 1/14/2009
860 N. MAIN STREET EXTENSION Page 8 of 10

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22477

Date Received: 1/7/2009 Job Number: 60045450.04

Field Sample #: SB-16 DUP

Not Specified

Sample Matrix: SOIL

	Units	Results	Date	Analyst	RL	SPEC Limit	P/F
			Analyzed			Lo Hi	
Nickel	mg/Lleachate	0.03	01/14/09	OP	0.01		

Analytical Method:

SW 846 1312/6010

SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP). SAMPLES ARE LEACHED FOR 16-20 HOURS IN THE APPROPRIATE LEACHING SOLUTION ACCORDING TO SPLP AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY. WATER SAMPLES ARE FILTERED, NOT EXTRACTED.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

[‡] = See attached chain-of-custody record for time sampled



DANIEL SERMET

METCALF & EDDY - WALLINGFORD 1/14/2009 860 N. MAIN STREET EXTENSION Page 9 of 10

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22477 60045450.04

Date Received: 1/7/2009 Job Number:

Field Sample #: SB-16 DUP

09B00348 ‡Sampled: 12/22/2009 Sample ID:

Not Specified

Sample Matrix: SOIL

	Units	Results	Date	Analyst	RL	SPEC	Limit	P/F	
			Analyzed			Lo	Hi		
7inc	mg/Lleachate	0.02	01/14/09	OP	0.02				_

Analytical Method:

SW 846 1312/6010

SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP). SAMPLES ARE LEACHED FOR 16-20 HOURS IN THE APPROPRIATE LEACHING SOLUTION ACCORDING TO SPLP AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY. WATER SAMPLES ARE FILTERED, NOT EXTRACTED.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample

^{‡ =} See attached chain-of-custody record for time sampled



DANIEL SERMET

METCALF & EDDY - WALLINGFORD 1/14/2009
860 N. MAIN STREET EXTENSION Page 10 of 10

WALLINGFORD, CT 06492 Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT LIMS-BAT #: LIMT-22477

Date Received: 1/7/2009 Job Number: 60045450.04

** END OF REPORT **

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

^{* =} See end of report for comments and notes applying to this sample



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/14/2009	Lims Bat #: LIMT-22477		Page 1 of 4	4
QC Batch Number	: GC/FID-22918				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B00341					
	Terphenyl	Surrogate Recovery	63.5	%	50-150
BLANK-128355					
	Extractable TPH (ETPH)	Blank	<10.	mg/kg dry weig	
LFBLANK-90379					
	Extractable TPH (ETPH)	Lab Fort Blank Amt.	33.3	mg/kg dry weig	
		Lab Fort Blk. Found	23.8	mg/kg dry weig	
		Lab Fort Blk. % Rec.	71.5	%	60-120
		Dup Lab Fort Bl Amt.	33.3	mg/kg dry weig	
		Dup Lab Fort Bl. Fnd	24.2	mg/kg dry weig	
		Dup Lab Fort BI %Rec	72.7	%	
		Lab Fort Blank Range	1.1	units	
		Lab Fort Bl. Av. Rec	72.1	%	
		LFB Duplicate RPD	1.6	%	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/14/2009	Lims Bat #: LIMT-22477		Page 2 of	4
QC Batch Number	er: ICP/TCLP-4636				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B00345					
	Arsenic	Sample Amount	<0.010	mg/l leachate	
		Matrix Spk Amt Added	0.500	mg/l leachate	
		MS Amt Measured	0.537	mg/l leachate	
		Matrix Spike % Rec.	107.580	%	70-130
BLANK-128442					
	Arsenic	Blank	<0.010	mg/l leachate	
	Cadmium	Blank	<0.005	mg/l leachate	
	Chromium	Blank	<0.01	mg/l leachate	
	Copper	Blank	<0.01	mg/l leachate	
	Nickel	Blank	<0.01	mg/l leachate	
	Lead	Blank	<0.015	mg/l leachate	
	Zinc	Blank	<0.02	mg/l leachate	
LFBLANK-90484	ļ				
	Arsenic	Lab Fort Blank Amt.	0.500	mg/l leachate	
		Lab Fort Blk. Found	0.563	mg/l leachate	
		Lab Fort Blk. % Rec.	112.720	%	80-120
	Cadmium	Lab Fort Blank Amt.	0.500	mg/l leachate	
		Lab Fort Blk. Found	0.508	mg/l leachate	
		Lab Fort Blk. % Rec.	101.700	%	85-115
	Chromium	Lab Fort Blank Amt.	0.50	mg/l leachate	
		Lab Fort Blk. Found	0.52	mg/l leachate	
		Lab Fort Blk. % Rec.	105.60	%	80-120
	Copper	Lab Fort Blank Amt.	0.50	mg/l leachate	
		Lab Fort Blk. Found	0.54	mg/l leachate	
		Lab Fort Blk. % Rec.	108.82	%	80-120
	Nickel	Lab Fort Blank Amt.	0.50	mg/l leachate	
		Lab Fort Blk. Found	0.55	mg/l leachate	
		Lab Fort Blk. % Rec.	110.58	%	80-120
	Lead	Lab Fort Blank Amt.	0.500	mg/l leachate	
		Lab Fort Blk. Found	0.528	mg/l leachate	
		Lab Fort Blk. % Rec.	105.680	%	80-120
	Zinc	Lab Fort Blank Amt.	0.50	mg/l leachate	
		Lab Fort Blk. Found	0.59	mg/l leachate	
		Lab Fort Blk. % Rec.	118.08	%	80-120



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Report Date:	1/14/2009	Lims Bat #: LIMT-22477		Page 3 of	4
QC Batch Numbe	r: WETCHEM-14309				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B00348					
	Chromium (+6)	Sample Amount	15.03	mg/kg dry wt	
		Matrix Spk Amt Added	45.67	mg/kg dry wt	
		MS Amt Measured	54.08	mg/kg dry wt	
		Matrix Spike % Rec.	85.50	%	
		MSD Amount Added	45.71	mg/kg dry wt	
		MSD Amt Measured	40.86	mg/kg dry wt	
		MSD % Recovery	56.50	%	
		MSD Range	28.99	units	
		MS Duplicate RPD	27.84	%	
BLANK-128435					
	Chromium (+6)	Blank	<0.16	mg/kg dry wt	
LFBLANK-90472				-	
	Chromium (+6)	Lab Fort Blank Amt.	39.86	mg/kg dry wt	
		Lab Fort Blk. Found	39.82	mg/kg dry wt	
		Lab Fort Blk. % Rec.	99.89	%	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/14/2009 Lims Bat #: LIMT-22477 Page 4 of 4

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER This is the number assigned to all samples analyzed together that

would be subject to comparison with a particular set of Quality

Control Data.

LIMITS Upper and Lower Control Limits for the QC ANALYSIS Reported. All

values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY

REPORT. Not all QC results will have Limits defined.

Sample Amount of analyte found in a sample.

Blank Method Blank that has been taken though all the steps of the

an alysis.

LFBLANK Laboratory Fortified Blank (a control sample)

STDADD Standard Added (a laboratory control sample)

Matrix Spk Amt Added Amount of analyte spiked into a sample

MS Amt Measured Amount of analyte found including amount that was spiked

Matrix Spike % Rec. % Recovery of spiked amount in sample.

Duplicate Value The result from the Duplicate analysis of the sample.

Duplicate RPD The Relative Percent Difference between two Duplicate Analyses.

Surrogate Recovery The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the

an alytical methods.

Sur. Recovery (ELCD) Surrogate Recovery on the Electrolytic Conductivity Detector.

Sur. Recovery (PID) Surrogate Recovery on the Photoionization Detector.

Standard Measured Amount measured for a laboratory control sample Standard Amt Added Known value for a laboratory control sample

Standard % Recovery % recovered for a laboratory control sample with a known value.

Lab Fort Blank Amt
Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found
Lab Fort Blk % Rec
Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec
Laboratory Fortified Blank % Recovered

Dup Lab Fort Bl Amt
Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd
Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec
Duplicate Laboratory Fortified Blank % Recovery

Dup Lab Fort B1 % Rec Duplicate Laboratory Fortified Blank % Recovery

Lab Fort Blank Range Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified

Blank Duplicate).

Lab Fort Bl. Av. Rec. Laboratory Fortified Blank Average Recovery

Duplicate Sample Amt Sample Value for Duplicate used with Matrix Spike Duplicate

MSD Amount Added Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured Matrix Spike Duplicate Amount Measured

MSD Amt Measured Matrix Spike Duplicate Amount Measured MSD % Recovery Matrix Spike Duplicate % Recovery

MSD Range Absolute difference between Matrix Spike and Matrix Spike

Duplicate Recoveries



REASONABLE CONFIDENCE PROTOCOL

LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	Con-Test Analytical Laboratory	Client:	METUALET	EDD	-4
------------------	--------------------------------	---------	----------	-----	----

Project Location: 80 HASTIGGS ST. BEINGERET Project Number: LIME. 22477

Laboratory Sample ID(s): 09800341-09800348 Sampling Date(s): 12-22-08

List RCP Methods Used (e.g., 8260, 8270, et cetera) \3\2,60\0,7\96, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	jeYes □ No
1A	Were the method specified preservation and holding time requirements met?	(XYes □ No
1B	VPH and EPH Methods only: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	□Yes □ No AN/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	KaYes □ No
3	Were samples received at an appropriate temperature (<6° °C°)?	AYes □ No □N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	KYes □ No
5	Were reporting limits specified or referenced on the chain-of-custody?	lgYes □ No
J	b) Were these reporting limits met?	XYes □ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	□Yes KNo
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	p(Yes □ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered and all questions must be answered.

knowledge and belief and based upon my per	nd penalties of perjury that, to the best of my rsonal inquiry of those responsible for providing port, such information is accurate and complete.
Authorized Signature: Vor Koryscinski	Position: Director of Operations Date: 1-14-09
Name of Laboratory: CON-TEST ANALYTIC	

This certification form is to be used for RCP methods only.

CHAIN OF CUSTODY F

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR EAST LONGMEADOW, MA 01028

Page of

VOUR CHAIN VOUR C	TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON	received by: (asgráture)	8501 8-1601	RU	Date/Time:	(Simple)	Siled by: (signature) Date/Time: (1:12) Iurnal	The sand bond that they we	ents:	-00	12/2/	513-13 5,77% 12/22	53-14 58777 12/22/	SB-13 DUP 58776 12/23/	58-13 50725 12/23/	2B-12 (8) 5877400341 13/22/	Field ID Sample Description Lab # 178 BUIS Date/Time	☐ yes ☐ no ☐ Date S	Proposal Provided? (For Billing purposes) State Form Required?	Format:	6	Project Location: OU HASTINGS ST PRINTERINT C Fax #:	DATA	Prince Screnet	welling find CT 08492 Client PO	Address: 660 MMM ST extession Project#	Company Name: / // L 'c/rc1 & L/W1 // 12(0/V) Telephone:(AV)	
		95-1740 SL = sludge 0 = other	Special Requirements or DL's: S = soil/solid	bata cililaricement Projectific P 3 2 Y LJ N DW= drinking water	Data Enhancement British Box SN www= wastewater	Regulations? KSK GW= groundwater	*** Detection Limit Requirements 'Matrix Code:	Shir M. High; M Medium; L Low;	1 Washing to	V		7				45	Time osite Grab Code Code	~S. O C D P I	e 1 (B)	APDF DGISKEY S	Seremet Mazcancon	TI COURT	(check one):	The second secon	ANALYSIS	45450.04 A V A A	7 1 1 / (

INCOBRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

ANALYTICAL LABORATORY	

Fax: 413-525-6405 Phone: 413-525-2332

CHAIN OF CUSTODY RECORD

Page
14
<u>♀</u>
16

TELY OR IS	ED OUT COMPLE	DAY AFILER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS	HAIN. IF THI	ON YOUR CI	STIONS O	ARE QUES	LESS THERE	ECEIPT UN	NTW ALL CHESTS	WILL NOT START	INCORRECT. TUBNAROUND TIME WILL NOT START HATH	RRECT, TI	
	o = Other	O = other			٠		* Require lab approval	* Require I	2010				‡[}
fate ()	B = Sodium bisulfate	SL = sludge		ġ.		KCV K		☐ *72-Hr ☐ *4-Day	Pate/Time/ / / //	Dat	ghalure)	Hecewed by: (signature)	Hece Hece
)	S = Sulfuric Acid	S = soil/solid		or DL's:	uirements :	Special Requirements		□ *24-Hr □ *48-Hr	3561 8 Mel	S. S. S. S. S. S. S. S. S. S. S. S. S. S		122	
	N - Nitric Acid	A II air			,					Dạt	by (signature)	Relinguished by	Reling
T = Na thiosulfate		WW= wastewater	MA CIN	Data Enhancement Project/RC*2 X V	coment Pro	Data Enhanc			02.01 8-46.21				
X = Na hydroxide		GW= groundwater	a l	张儿					c	Dat	(signature)	Received by: (si	Rece
Codes:	rvation (*Matrix Code:	ents	Requirements		Detection		Jurnar	Date/lime:	Date	remidusied by: (signature)	Action 60 OA	
	'n	C - Clean; U - Unknown	4	H - High; M - Medium; L - Low;	good second	colopt	1 4 5 6 W-T		Property of the state of the st		. (2)		D ·
2		be high in concentration in Matrix/Conc. Code Box:	ation in Matri	in concentr	be high								
	a specific sample n	use the following codes to let Con-Test know if a specific sample may	wing codes t	use the follo	Please	-					ments:	Laboratory Comments:	Labor
-			,	9	4			3 aprefe	50789	7,11	0-26	-	
			1	Ϋ́	<u>ر</u>	W.		20/00/00	50788	5	8-25	4	
				0	5	a de la constantina della constantina della cons		2/22/08	0787	5.	アノーの	<u></u>	
				q	5	4		popola	0786	3	8-23		T
			`	X	5	or a		12/22/06	50785		18-22		
				9	1 h	1 a		12/24/08	5078400343	5	50-218		
					5	2		12/27/02	50783		8-20	· \	
Client Comments:			,	4	5	×		30/40/103	70782		5 115-14		
				Code	Code	osite Grab	Date/Time		Lab # Df & C TR	La	Sample Description	Field ID Sar	Field
O =Other		pp	V			Comp	ieα	Ctart Ctart	U yes U no	proposal date	piopos	900	
T=tedlar bag		10	() (-	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COL	OTHER) E		Froposal Frovided? (For Billing purposes)	Josai Prov	τ <u>2</u>
S=summa can		7		Æ	☐ GIS	PDF	EXCEL	Format:					7
V≔ vial		7		7,	vecon con	Comet Co	10. S.C.	Email:		***************************************) EREMET	Sampled By:	Sam
P=plastic ST=sterile					CLENT	₩EBSITE	JEMAIL 16	Fax #:		KT CT	on: BRIDGEFORT	Project Location:	Proj
A=ambergiass G=glass						eck one):		DATA DE		Jerenet	Nortal Ser	Attention:	Atte
-Cont. Code:	UESTED	ANALYSIS REQUESTED					#	Client PO#	92	490	Wallong Fad		
~Cont.Code				 	40,	60045450	4009	Project #	ナな	Wain St Ca	N 099	Address:	Add
**Preservation				 	-8/1	1 11 2	Telephone:(ズሠ) / // ~ ~ /	Telephon	ACCOLA	T WINT	me: ///// [1967	Company Name:	. Con
# of containers					υ ? ?	() ()	7 7 1. 1. 1.		www.contestlabs.com	Z 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		40 60 60 7)
	1028	EAST LONGMEADOW, MA 01028		**************************************	7	3	there I'm	bs.com	Fax: 413-525-6405 Email: info@contestlabs.com	•	ANALYTICAL LABORATORY		
Page of		39 SPRUCE ST, 2ND FLOOR		I C C C	COSICE				none: 413-525-2332	N N I		Market San	ita.

INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

Fax: 413-525-6405 Phone: 413-525-2332

CHAIN OF CUSTODY RECORD

EAST LONGMEADOW, MA 01028 39 SPRUCE ST, 2ND FLOOR

بد	
70	
Page	
-	
<u>o</u>	

DMPLETELY ON IS	OT FILLED OUT CO	FORM IS N	IF THIS	CHAIN	ON YOUR	QUESTIONS	ERE ARE	U SSE VNSWEER	LE RECE	CORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CHAIN. ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR	INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR OF INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR OF INCORRECT.	T, TURNAROUND	INCORREC
and sold and the	O ! Othor	O = other			The state of the s		val	* Require lab approval	* Re	10190108	3,0		
B Sodium hisulfata	B Sodiu	SL = sludge	/ 0	į	J. 20	1 Kegan	7	□ *72-Hr □ *4-Day		Date/Time//); ?	The second secon	(: (signature)	necelyed by:
ic Acid	S = Sulfuric Acid	S = soil/solid	10		ts or DL's:	Special Requirements or DL's:	Specia	□ *24-Hr □ *48-Hr		11/2/18/11/28	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TW		
Acid		A = air		,	(RUSH *				Total Barrey Park Total Barrey	7
		DW = drinking water	O Z	A V	Project (FCP)	Data Enhancement P	Data E	Other_	Š	10.07-8 1050			Belinguich
T = Na thiosulfate		WW= wastewater	- CAR	191	ROE	JO JOSHO			٧ 	ລໍ່		y (signature)	Hecelyed by:
**Preservation Codes:	aler -	<pre>'Matrix Code: GW= groundwater</pre>		emenu	<u>KSR</u>	egulations?.	<u> </u>	M. VECX D	2.72	08	- Company of the Comp		Mary
		C - Clean; U - Unknown		dium; L		_ =	寸	"Irnaround **	1000	Date/Time:	And the second s	Relinguished by: (signature)	Relinguish
ample may	be high in concentration in Matrix/Conc. Code Box:	be high in concentration in Matrix/Conc. Code Box:	in Matrix	ntration	gh in conce	be h				÷			
With department of the particular state of the state of t	WHEN THE PROPERTY OF THE PROPE	of Con Too	ot saboo to		ed the f	Plea	-				***************************************	Laboratory Comments:	Laboratory
				X				12/27	T.	1997	0 -2	2024	
		X	A					[2/22/04	P	5-00-24	NATIONAL DESCRIPTION OF THE PROPERTY OF THE PR	5-33	
	×		4	9					L.,	76795 00317		08-52	-
	-			a						414	Marian Marian Company	3 6	7114
-	<u>/</u>		4	X					d's	50 50 50 50 50 50 50 50 50 50 50 50 50 5		- I . '	<
		. 2		4					Ê	\$574+034S		20-1-20	Land
				W				,	Inc.	1679+ 00344		311-280	
<u>Client</u> Comments:				Q	,	4		2/22/08	<u> </u>	Colombiania de la colombia	THE PROPERTY OF THE PROPERTY O	50-27	
	<u> </u>	<u>\</u>	E	<u>A.</u>	ríx Conc.	*Matri Grab Code	Comp- me osite	Start Stop Date/Time Date/Time	ONB Start	Lab #7KR	tion	Sample Description	Field ID
	P1	0	P	; ,,			Ω.	Date Sampled		□ yes □ no	proposal date	THE PROPERTY OF THE PROPERTY O	J yes
T=tedlar ban	1/2	C	i 4 14	تعم ک			ďι	O OTHER	red?	State Form Required?	lling purposes)	Proposal Provided? (For Billing purposes)	rroposa
S=summa can	1	5			☐ GIS KEY		OF POR	Format: GEXCEL	<u></u>				D
V= Via	5			i C	1}	2 accorder	a. seemeto	Email: da-s	l m		67	By: SPKNET	Sampled By:
P=plastic ST=sterile					_		G	1	T (a)	of second	RUNG RADAT, C	2	Project Location:
G=glass	***************************************						TEMAII XTWERSITE	OFAX OFMA	ا !! ت				
A=amber glass						one).	/ (check	DATA DELIVERY (check one)	D		Erret	Direct 3	Attention:
-Cont Code:	ANALYSIS REQUESTED	ANALYSI						Client PO #	<u></u> ⊆	6492	d CT D.	wolling to	
~Cont.Code		ヾ	74	7		0.04	045450	Project #b_6	 Pr	かさ	Main Si	N 000 %	Address:
**Preservation		₩#	1		126	1-10) 77/	Telephone:(メジ)	Te	MELDER	ALTORDI	Company Name: 7/1/2/2/	Collipan
# of containers		7			7					www.contestlabs.com	0.130.00	Name: Mary	Compan
020						t	State To	com	testlabs.c	Email: info@contestlabs.com	ANALYTICAL LABORATORY	ANALYTICA	
230	EAST LONGMEADOW MA 01028	EAST LONG					, No.	č	Ü	Fax: 413-323-6403			

INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

Email: info@contestlabs.com Fax: 413-525-6405 Phone: 413-525-2332

CHAIN OF CUSTODY RECORD

EAST LONGMEADOW, MA 01028 39 SPRUCE ST, 2ND FLOOR

Page .	f
	2
<u></u>	. 78

	Fax: 413-525-6405	・)	To see the second	EAST LONGMEADOW, MA 01028	/, MA 01028	
ANALYTICAL LABORATORY	Email: info@contestlabs.com	bs.com MI - OFT Y		THE THE PARTY OF T		
	· · · · ·	53.74/3			4:	# of containers
Company Name: / V/E/77/Lr 6/100/7	(AKEIN	Telephone:(<0>) / (1 / 0 / 1				**Preservation
Address: 660 N.MAWST	F	Project # 60, 45450, 04	104 A G			~Cont.Code
industant co	06492	Client PO #		ANALYSIS REQU	REQUESTED	-Cont. Code:
Attention: Pons (Secenset		DATA DELIVERY (check one):	e):			A=amber glass G=glass
		DFAX DEMAIL DIWEBSITE	SITE CLIENT			C =glastic
Project Location: BRINGEPORT,	9	1	***************************************		(0)	ST=sterile
Sampled By: SER ONET		Email: darscentous	CE CO N. Clared			V= vial
	***************************************	Format: OF EXCEL OF PDF	O GIS KEY		O	S=summa can
Proposal Provided? (For Billing purposes)	State Form Required?	OTHER	500			T =tedlar bag
yesproposal date	Jyes Jno	Date Sampled	72			0=Other
Field ID Sample Description	Lab # 08P	Start Stop Comp- Date/Time Date/Time osite	'Matrix Conc. Grab Code Code			
50-34 2-4	507X/18	12/12/68	× ×			Client Comments:
50-35 0-2	TOTATA	12/27/08	×			
54 × 35- US	50 7X 80	20/15/10	~	The state of the s		·
59-36 0-2	507780	2/27/48	X	,		
150-36 2-4	Formal and a second	80/00/4	8			
PCB WNE 1	108 X 807	4/27/28	8	THE PROPERTY OF THE PROPERTY O		
PLAWIET DUP	407808UL	42768	0	The state of the s		
Laboratory Comments:			Please use the following co be high in concentration in	use the following codes to let Con-Test know if a specific sample may in concentration in Matrix/Conc . Code Box:	specific sample may	
	The second secon		H - High; M - Medium; L - Low;	ow; C - Clean; U - Unknown	1	
Relinguished by: (signature)	, ē.	Turnar	Limit	*Matrix Code:	**Preservation Codes:	1
Mark same	1474/BB	~	W.	GW= groundwater	I = iced X = Na	X = Na hydroxide
Received by: (signatuse)	Date/Time: 1030	`	ncement Project/RCPQ XXV	WW= wastewater DW= drinking water	M = Methanol	T = Na thiosulfate
minuster to the second of the		(2.5)	The state of the s		IN - Medicalor	

INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS

☐ .72-Hr ☐ .4-Day □ *24-Hr □ *48-Hr

Special Requirements or DL's:

SL = sludge

O = Other_

B = Sodium bisulfate S = Sulfuric Acid N = Nitric Acid M = Methanol

S = soil/solid

* Require lab approval

Received by: (signature)

Relinguished by:

Date/Time: 13-24-8

RUSH *

Other_

Data Enhancement Project/

DW= drinking water

AIHA, NELAC & WBE/DBE Certified



Email: info@contestlabs.com Fax: 413-525-6405 Phone: 413-525-2332

CHAIN OF CUSTODY RECORD

EAST LONGMEADOW, MA 01028 39 SPRUCE ST, 2ND FLOOR

Page	
	^
	\sim

T = Na thiosulfate		thanol	M = Methanol		water g wate	DW = wastewater DW = drinking water	DW=	N C	ON DIN	CP?	roject/RCP? DY DN	nent Pro	nhancem	Data Enhancement P	<u> </u>	10-Da		05.00	Date/Time:		enn ferskrikkelik de ferskrik fan de ferskrik fan de ferskrik fan de ferskrik fan de ferskrik fan de ferskrik fan de	Heceived by: (signature)	ived by:	Lecg
∧ = Na Hydroxide	>		naoi I		Twater	GW = Gloulluwater	Ç.			173			ŧ	teguiations :		S 70		400 600	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				de arriva	Ţ
- <u>s</u>	1 Code	**Preservation Codes	Prese		6	*Matrix Code:	*Matr		ents	irem	Requirements	imit	lion L	Detection Limit	nd *	urnaround **			Date/Time:		e)	Relinquished by: (signature)	quished t	て Vie 大き
		контонняться	SATA ESTENDE ANGESTE	nwor	- Unkr	Low; C - Clean; U - Unknown	C - Ok	Low;	m; L -	/lediu	H - High; M - Medium; L -	H Hig			(3-17-0)	2 5.6c		117		MON		000	グナト	
		be high in concentration in Matrix/Conc. Code Box:	респо	V II d V	e Box:	c. Cod	x/Con	Matri	tion in	centra	be high in concentration in Matrix/Conc. Code Box:	be high		2	0		755,1	SER		5-161	COLL active to SIS-16 Dupter SPIP AS, Collection	MROC THEIRS	A MINAL O	
															WAR TO THE TAX TO THE	***************************************	-					manufa:		2
	1	1			-							-				1 6 8	1		100		J. Sum	۲		
	`	X										~		_		187	12/22/E		1305			بر تنه		
					\times				******			********				00	12/22/00		508H		29 DUP	グローとの	Andread Section Assessment	
	-		X	1												20	31 July	20348	5487 00348	(4)		5		
		X	N	ļ												103	12/22/09		TEE!		and hi	53-		
		ļ			X								ļ		ļ.	40%	12/22/08	U	F-36-7		-17 DUP	57-		
			***************************************		<u></u>	X						5	<u> </u>			3/6	12/27/21	•	5754		5. 3.30 DVP	23/		
Comments							×	×	X	4		5	1			3108	12/23/08	,	FASAF.		Additional to the state of the	TT CO	**************************************	
		F	F)	1	L	-	E	PP	}	Conc.	*Matrix Code	Grab (Comp- osite G	/Time	1	Start Date/Time	B	Lab # ORB		cription	Sample Description	<u> </u>	Field ID
0=Other		<u> </u>) <i>(</i> /	<u>/ v</u>	15	. T	/ [1	()						pled	Date Sampled	Da	no	J yes	te	proposal date		yes	
T=tedlar bag		<u>- </u>	1 >	Cs	4	1	26	PL	}	<u>. </u>					OTHER_	100		Required'	State Form Required?	_	Proposal Provided? (For Billing purposes)	vided? (Fo	osal Pro	Propo
S=summa car		<u>ر د</u> ام	7 .	<u>.</u>	úί		,	<u>_</u>	Λ.		KEY	SIS E	EN/	A PDF		III DEXCEL	Format:							
V= vial		\ {+	14	<u> </u>					lj.	3	Becamican	200	1 + D	eremet	4	don	Email.			BENE	7		Sampled By:	Samı
ST=sterile			٠٠						l,					-			Fax # :			()	Dids com		Project Location:	Proje
P ≔plastic			1									IENT I	TE CL	WEBSITE CLIENT	DEMAIL A	X	□FAX			Ì	•)		
G=glass			····						***************************************				14	ck one	DATA DELIVERY (check one):	DELIVE	DATA				64	1 Street	ition:	Attention:
-Cont. Code:				_EX	_ ⊒ 2	ANALYSIS REQUESTED	ANA	·								Client PO#	Client		7	06497	GACT	4 '		
-Cont.Code		7	4	<	4	4	<	4	70	7			450.04	527	60045	20 #	Project #			Store	N. Paris	660,	ess:	Address:
**Preservation				1 1000	- 2		F		N			4	200	7/-	Telephone: (203) $(4/-25)$	hone:()	Telep	ر	A EXUM	EMATI	Company Name: IN FTCOLF & ZONT	me:	pany Na	Com
# of containers				78	*	_	h-3	2	_	N		7	3)	j		stlabs.cor	www.contestlabs.com	unov'	7		60 60 60	

INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR * Require lab approval Received by: (signature)

Relinquished by: (signature)

Date/Time:

RUSH *

2/24/0

Date/Time;

☐ *72-Hr ☐ *4-Day □ *24-Hr □ *48-Hr

Special Requirements or DL's:

A = air

AIHA, NELAC & WBE/DBE Certified

O = other_ SL = sludge S = soil/solid

O = Other

B = Sodium bisulfate S = Sulfuric Acid N = Nitric Acid

SAMPLE REACTIVATION FOR	<u>Y1.</u>	
COMPANY AECOM/Metcalf+Eddy	LOCATION	OB
CONTACT Dan Swemet		80 Hastings Stree Bridge port, CT
CONTACT PHONE 203-741-2839	FAX	Bridge port, CT
DATE 1/7/09 TIME 3:10pm	TAT 5 day	DUE DATE
REQUEST TAKEN BY Holly Folsom		
A CTIVATION DECLIECT.		
See a Hached email furll	activation	us to 5
day THI.		
SPECIAL INSTRUCTIONS AND TERMS	:	
FAXED TO CONTACT FOR APPROVAL	: Y N	
ACTIVATION IS CORRECT PER OUR R	EQUEST	DATE

CONTEST FINAL APPROVAL

Holly L. Folsom

From:

"Seremet, Dan" < Dan. Seremet@aecom.com>

To:

<hfolsom@contestlabs.com>

Cc:

"Hellerich, Lucas" < Lucas. Hellerich@aecom.com>

Sent:

Wednesday, January 07, 2009 2:50 PM

Subject: 80 Hastings Street Bridgeport sample reactivation

Hi, We would like to reactivate the following samples from the 80 Hastings Street Bridgeport, CT Dec 22,23 sampling batch.

3 SPLP arsenic (SB-28, SB-29, SB-21)

2 SPLP lead (SB-30 and SB-32)

1 SPLP for Arsenic, Cadmium, Chromium, Copper, Zinc, Lead, Nickel. (SB-16 DUP)

1 mass ETPH (SB-12)

2 mass hexavalent chromium (SB-16 and SB-16 DUP)

Please acknowledge this request and let me know if there are any problems or questions. Thank you.

-Dan Seremet

Engineer AECOM Environment 203,741.2839

dan.seremet@aecom.com

AJ-day TAT *

LIMT-22296) LIMT-22297)

Appendix G Summary of Phase II ESA Concrete Sample Analytical Results

Progressive Plating Technologies

80 Hastings Street Bridgeport, CT AECOM Environment

					ALOOM LII	VII OIIIIIOIII					
		Existing CT	RSR Criteria		Rev	rised CT RSR Cri	teria			Sample Locations	
Parameter	I/C DEC	RES DEC	GA PMC	GB PMC	I/C DEC	RES DEC	GB PMC	HAZARDOUS DISPOSAL CRITERIA	CC-1	CC-2	CC-3
Sampling Date									9/8/08	9/8/08	9/8/08
Sample Depth (feet)									0-0.5	0-0.5	0-0.5
Laboratory Report Number									LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	I IMT-19446 & I IMT-1994
Chromium 6 dry weight (mg/kg dry wt)											
Chromium (+6)	100	100		~	613.2	20.3	~	~	0.68	<0.17	879 ^{†+}
Metals (13pp) sicp (mg/kg dry wt)					0.0.2	20.0			0.00	10	0.0
Antimony	8,200	27.0	~	~	8,176.0	271.0	~	~	<4.14	<4.11	20.9
Arsenic	10.0	10.0	~	~	10.0	10.0	~	~	15.8 ^{†+}	17.5 ^{†+}	57.1 ^{†+}
Beryllium	2.00	2.00	~	~	408.8	13.6	~	~	<0.26	<0.26	<0.26
Cadmium	1,000	34.0	~	~	40.9	1.4	~	~	37 ⁺	203 ⁺	387 ⁺
Chromium (trivalent)	51.000	3,900		~	50,000	50.000	~	~	282	513	6400 ⁺
Chromium (total)	NE	NE		~	NE	NE	~	~	282	513	6,400
Copper	76,000	2,500	~	~	20.440.0	677.4	~	~	311	4140 ⁺	1,590
Lead	1,000	400	~	~	1,000	400	~	~	37.3	90.2	947 ⁺
Mercury	610	20.0	~	~	613.2	20.3	~	~	0.029	0.091	0.357
Nickel	7,500	1,400	~	~	1,363.0	45.0	~	~	2220 ⁺	36900 ^{†+}	10400 ^{†+}
Selenium	10,000	340		~	10,220.0	340.0	~	~	<5.17	<5.13	<5.09
Silver	10,000	340		~	10,220.0	340.0	~	~	5.13	8.02	24.0
Thallium	160	5.40		~	163.5	5.4	~	~	<3.10	<3.08	<3.50
Zinc	610,000	20,000	~	~	50,000	20,322.6	~	~	759	4,320	4,590
SPLP - metals (mg/l leachate)											
Arsenic	~	~	~	0.5	~	~	0.05	5	0.051	0.054	0.144
Barium	~	~	~	10	~	~	22	100	<0.10	<0.10	0.110
Cadmium	~	~	~	0.05	~	~	0.015	1	<0.005	<0.005	1.43*
Chromium	~	~	~	0.5	~	~	~	5	0.410	0.470	19.6*
Lead	~	~	~	0.15	~	~	120	5	0.074	0.073	0.088
Mercury	~	~	~	0.02	~	~	0.077	0.2	<0.00010	<0.00010	0.00094
Selenium	~	~	~	0.5	~	~	0.5	1	<0.05	<0.05	<0.05
Silver	~	~	~	0.36	~	~	0.1	5	<0.005	<0.005	0.081
Percent Solids (percent) (%)											
Solids, total	~	~	~	~	~	~	~	~	96.8	97.5	98.4

Notes:

- 1. NT = Not tested.
- 2. NE = Not established
- 3. ~ = No Standard available
- 4. A shaded cell indicates value is in exceedence of an existing CT Remediation Standard Regulation. Specific exceedences are indicated as follows:
- † Value exceeds Industrial/Commercial Direct Exposure Criteria
- + Value exceeds Residential Direct Exposure Criteria
- * Value exceeds Groundwater Class B Pollutant Mobility Criteria
- 5. Sample values inside bold-bordered cells exceed hazardous disposal criteria.
- 6. RSR criteria are in same units as analyte.
- 7. Results are only compared to existing CT RSRs. No exceedances to revised CT RSRs are called out. Revised CT RSRs shown for informational purposes only. A summary of exceedance changes due to the revised RSRs is provided in Table 7.
- 8. I/C = Industrial/ Commercial
- 9. RES = Residential
- 10. GB PMC = GB Pollutant Mobility Criteria
- 11. Detections and select non detections are shown on this table. For complete results see laboratory reports.
- U = the compound was analyzed for, but was not detected at the associated value due to blank contamination or variance from other quality control limits.
- J = the associated value is an estimated quantity. The reported result is qualitatively accurate but quantitatively imprecise.
- UJ = the compound was analyzed for, but was not detected, and the associated value is an estimated value due to the variance from quality control limits.

		Existing CT RSR Crite	ria	ı	Revised CT RSR Criter	ia			Sample I	Locations		
Parameter	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	COMP-1 (SB-4, SB-5, & SB-9)	COMP-2 (SB-6, SB-7, & SB-8)	SB-1	SB-1d	SB-2	SB-3
Sampling Date							9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08
Sample Depth (feet)							0-2 (composite)	0-2 (composite)	1-3	1-3 (duplicate)	1-2	0-1
Laboratory Report Number							LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947
VOCs 8260 solid (mg/kg)												
Acetone	1,000	500	140	1,000	500	1,000	NT	NT	<0.053 UJ	NT	<0.053 UJ	NT
Acrylonitrile	11	1.1	0.1	10.6	.12	.048	NT	NT	<0.006	NT	<0.006	NT
tert-Amylmethyl Ether	~	~	~	-	~ .7	~	NT NT	NT NT	<0.001	NT NT	<0.001	NT NT
Benzene	200	21	0.2	57.2	./	2.5			<0.002		<0.002	NT NT
Bromobenzene Bromochloromethane	~	~	~	~	~	~	NT NT	NT NT	<0.002 <0.002	NT NT	<0.002 <0.002	NT NT
Bromodichloromethane	92	9.9	0.11	92.0	1.1	0.04	NT	NT	<0.002	NT	<0.002	NT
Bromoform	720	78	0.8	715.4	8.3	248	NT	NT	<0.002	NT	<0.002	NT
Bromomethane	1,000	95	2	1,000.0	33.9	0.1	NT	NT	<0.002	NT	<0.002	NT
2-Butanone (MEK)	1,000	500	80	1,000	500	1,000.0	NT	NT	<0.022 UJ	NT	<0.022 UJ	NT
tert-Butyl Alcohol	~	~	~	~	~	~	NT	NT	<0.022 UJ	NT	<0.022 UJ	NT
n-Butylbenzene	1,000	500	14	1,000	500	2.0	NT	NT	<0.002	NT	<0.002	NT
sec-Butylbenzene	1,000	500	14	1000	500	2.0	NT	NT	<0.002	NT	<0.002	NT
tert-Butylbenzene	1,000	500	14	~	~	~	NT	NT	<0.002	NT	<0.002	NT
tert-Butylethyl Ether	~	~	~	~	~	~	NT	NT	<0.001	NT	<0.001	NT
Carbon Disulfide	1,000	500	140	1000	500	30.0	NT	NT	<0.006	NT	<0.006	NT
Carbon Tetrachloride	44	4.7	1	44	3.2	0.1	NT	NT	<0.002	NT	<0.002	NT
Chlorobenzene	1,000	500	20	1000	500	43.0	NT	NT	<0.002	NT	<0.002	NT
Chlorodibromomethane	68	7.3	0.1	~	~	~	NT	NT	<0.001	NT	<0.001	NT
Chloroethane	~	~	~	1000	500	237.0	NT	NT	<0.011	NT	<0.011	NT
Chloroform	940 440	100 47	1.2 0.54	1000 1000	67.7 176.1	2.0 3.0	NT NT	NT NT	<0.003 <0.006	NT NT	<0.003	NT NT
Chloromethane 2-Chlorotoluene	440	47	0.54	1000	135.5	4.0	NT NT	NT NT	<0.006	NT NT	<0.006 <0.002	NT NT
4-Chlorotoluene	~	~	2 2	1000	135.5	3.6	NT NT	NT	<0.002	NT	<0.002	NT
1,2-Dibromo-3-Chloropropane	4.1	0.44	~	~	~	3.0 ~	NT	NT	<0.002	NT	<0.002	NT
1,2-Dibromoethane	0.067	0.007	0.1	~	~	~	NT	NT	<0.002	NT	<0.001	NT
Dibromomethane	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	NT
1,2-Dichlorobenzene	1,000	500	3.1	1,000	500	46.0	NT	NT	<0.002	NT	<0.002	NT
1,3-Dichlorobenzene	1,000	500	120	1000	67.7	2.4	NT	NT	<0.002	NT	<0.002	NT
1,4-Dichlorobenzene	240	26	15	143.1	10.5	18.8	NT	NT	<0.002	NT	<0.002	NT
trans-1,4-Dichloro-2-Butene	~	~	~	~	~	~	NT	NT	<0.003	NT	<0.003	NT
Dichlorodifluoromethane	~	~	~	~	~	2.0	NT	NT	<0.011	NT	<0.011	NT
1,1-Dichloroethane	1,000	500	14	1,000	500	15.0	NT	NT	<0.002	NT	<0.002	NT
1,2-Dichloroethane	63	6.7	0.2	63	0.7	0.12	NT	NT	<0.002	NT	<0.002	NT
1,1-Dichloroethylene	9.5	1.0	1.4	1000	500	2.3	NT	NT	<0.003	NT	<0.003	NT
cis-1,2-Dichloroethylene	1,000 1,000	500 500	14 20	1000 1000	500 500	18.6 10.7	NT NT	NT NT	<0.002 <0.002	NT NT	<0.002	NT NT
trans-1,2-Dichloroethylene 1,2-Dichloropropane	84	9.0	1	159	11.6	0.2	NT	NT	<0.002	NT	<0.002 <0.002	NT
1,3-Dichloropropane	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	NT
2,2-Dichloropropane	~	~	~	~	~	~	NT	NT	<0.001	NT	<0.001	NT
1,1-Dichloropropene	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	NT
cis-1,3-Dichloropropene	32	3.4	0.1	57.2	.7	.1	NT	NT	<0.001	NT	<0.001	NT
trans-1,3-Dichloropropene	32	3.4	0.1	57.2	.7	.1	NT	NT	<0.001	NT	<0.001	NT
Diethyl Ether	~	~	~	~	~	~	NT	NT	<0.011	NT	<0.011	NT
Diisopropyl Ether	~	~	~	~	~	~	NT	NT	<0.001	NT	<0.001	NT
1,4-Dioxane	~	~	~	~	~	~	NT	NT	<0.053 UJ	NT	<0.053 UJ	NT
Ethyl Benzene	1,000	500	10.1	1000	500	35.0	NT	NT	<0.002	NT	<0.002	NT
Hexachlorobutadiene	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	NT
2-Hexanone	4.000	~	400	4.000	~	~	NT	NT	<0.011	NT	<0.011	NT
Isopropyltelyene	1,000	500 500	132 41.8	1,000	500	18.0 18.6	NT NT	NT NT	<0.002	NT NT	<0.002	NT NT
p-Isopropyltoluene MTBE	1,000 1,000	500	41.8 20	1,000	~ 500	18.6 440.0	NI NT	NT NT	<0.002 <0.003	NT NT	<0.002	NT NT
Methylene Chloride	760	82	20	763.1	8.8	3.2	NT NT	NT NT	<0.003 <0.011	NT NT	<0.003 <0.011	NT NT
MIBK	1.000	500	14	1,000	500	1,000.0	NT NT	NT NT	<0.011	NT NT	<0.011	NT NT
Naphthalene	2,500	1,000	56	~	~	~	NT NT	NT NT	<0.011 <0.006 UJ	NT	<0.006 UJ	NT
n-Propylbenzene	1,000	500	14	1,000	500	14.0	NT	NT	<0.002	NT	<0.002	NT
Styrene	1,000	500	20	1,000	135.4	48.0	NT	NT	<0.002	NT	<0.002	NT
1,1,1,2-Tetrachloroethane	220	24	0.2	220	2.5	0.08	NT	NT	<0.002	NT	<0.002	NT
1,1,2,2-Tetrachloroethane	29	3.1	0.1	29.0	2.3	0.028	NT	NT	<0.001	NT	<0.001	NT
Tetrachloroethylene	110	12	1	10.6	0.8	1.6	NT	NT	<0.002	NT	<0.002	NT

Parameter Para		l F	xisting CT RSR Criter	ia	R	evised CT RSR Criteri	a	l		Sample I	ocations		
Service Company Service Co	Parameter											SB-2	SB-3
Second Control Seco										9/8/08	9/8/08	9/8/08	9/8/08
Anthony of the color of the c													
Temperature													
Towns		~	~	~	753.1	55.0	9.9						
1-3.7 Telephotoprome		1.000	500	67									
1.5.4 Telephotomores 1.5.2 Telephotomores 1.5.2 Telephotomores 1.5.2 Telephotomores 1.5.3 Telephotomores 1.5.3 Telephotomores 1.5.3 Telephotomores 1.5.3 Telephotomores 1.5.3 Telephotomores 1.5.3 Telephotomores 1.5.3 Telephotomores 1.5.4 Telephotomores 1.5.5 Telephotomores 1.5 Telephotomores 1.5 Telephotomores 1.5 Telephotomores 1.5 Te		~	~	~	~	~	~						
15.1 File Consideration 1.5.1 File Consideration 1.5.2 File Consideration 1.5		2,500	680	14	1,000.0	500	2.4						
Interconfedents	1,1,1-Trichloroethane		500	40			51.0	NT	NT	<0.002	NT	<0.002	
International conference	1,1,2-Trichloroethane	100	11	1	100.0	7.3	0.2	NT	NT	<0.002	NT	<0.002	NT
Triulovalence of the property	Trichloroethylene	520	56	1	64.3	0.7	0.52	NT	NT	<0.002	NT	<0.002	NT
12.3 Tickhorque	Trichlorofluoromethane	1,000	500	260	1,000	500.0	35.0	NT	NT	<0.006	NT	<0.006	NT
1.5.6 1.5.6	1,2,3-Trichloropropane	~	~	~	~		~	NT	NT	<0.002	NT	<0.002	NT
1.53 Transphaseres 1,00 500 70 1,000 500 19 NT NT 40,002 NT 40,0	1,1,2-Trichloro-1,2,2-Trifluoroethane	~	~	~	~	~	~	NT	NT	<0.006	NT	<0.006	NT
Virgo Charlese 3.0 0.32 0.4 4.0 0.1 38.0 NT NT <0.006 NT <0.006 NT <0.006 NT <0.006 NT <0.006 NT <0.006 NT <0.006 NT <0.006 NT <0.007 NT <0.007 NT <0.007 NT <0.007 NT <0.007 NT <0.007 NT <0.007 NT <0.007 NT <0.007 NT <0.007 NT NT <0.007 NT NT NT NT NT NT NT N	1,2,4-Trimethylbenzene	1,000	500	70	1,000	500	2.4	NT	NT	<0.002	NT	<0.002	NT
m p Nymes	1,3,5-Trimethylbenzene	1,000	500	70	1,000	500	1.9	NT	NT	<0.002	NT	<0.002	NT
0.00 0.00	Vinyl Chloride			0.4			38.0	NT	NT		NT		
2000 1,000 500 19.5 1,000 500 19.5 1,000 500 19.5 1,000 500 13.54.8 -	m + p Xylene	1,000	500	19.5	1,000	500	41.0	NT	NT	<0.003	NT	< 0.003	NT
Cyambe (proping)	o-Xylene	1,000	500	19.5	1,000	500	41.0	NT	NT		NT	<0.002	NT
SPLP-preprint (mg/g)	Cyanide (mg/kg)												
Composition 2		41000	1400	~	40880	1354.8	~	51.0	NT	NT	NT	NT	32
SPLP	SPLP-cyanide (mg/l)												
Mecon	Cyanide	~	~	2	~	~	0.52	NT	NT	NT	NT	NT	NT
Mecon	SPLP-mercury (mg/l leachate)												
Chromatum (e) 100 100 - 5132 20.3 - NT <1.81 NT NT NT NT NT NT NT N		~	~	0.02	~	~	77	NT	NT	<0.00010	NT	NT	NT
ETPH dy weight (mg/kg dy weight)	chromium 6 dry weight (mg/kg dry wt)												
Extractable TPH (ETPH)	Chromium (+6)	100	100	~	613.2	20.3	~	NT	<1.81	NT	NT	NT	NT
Marie (1590) size (mg/ng dry wr)	ETPH dry weight (mg/kg dry weight)												
Antimony 8,200 270 - 8,176.0 271.0 - 43.8 -4.61	Extractable TPH (ETPH)	2,500	500	2,500	~	~	2,500	NT	NT	430	580 ⁺	300	NT
Antimony 8,200 270 - 8,176.0 271.0 - 43.8 -4.61	Metals (15pp) sicp (mg/kg dry wt)												
Barlum 140,000 4,700 - 50,000 13,548 - 59.3 47.4 338.0 158 66.6 NT Berlyllm 2,00 2,00 - 4088 13.6 - - - - - - - - -	Antimony	8,200	27.0	~	8,176.0	271.0	~	<4.38	<4.61	<4.54	<4.66	<4.23	NT
Barlum 140,000 4,700 - 50,000 13,548 - 59.3 47.4 338.0 158 66.6 NT Barlum 2.00 2.00 - 408.8 13.6 - - - - - - - - -	Arsenic	10.0	10.0	~	10.0	10.0	~	8.07	12.4 ^{†+}	8.32	8.53	14.5 ^{†+}	NT
Cadmism	Barium		4,700	~		13,548	~		47.4			66.6	NT
Chromium 100 100 20,440.0 677.4 - 152 531 293 J 288 11.8 NT Choper 76,000 2,500 - 20,440.0 677.4 - 152 531 293 J 288 17 NT Lead 1,000 400 - 11,000 400 - 163.2 20.3 - 0,059 4,015 0.346 0.462 0.026 NT NT NEW NEW NEW NEW NEW NEW NEW NEW NEW NEW	Beryllium	2.00	2.00	~	408.8	13.6	~	<0.28	<0.29	<0.29	<0.30	<0.27	NT
Chromium 100 100 20,440.0 677.4 - 152 531 293 J 288 11.8 NT Choper 76,000 2,500 - 20,440.0 677.4 - 152 531 293 J 288 17 NT Lead 1,000 400 - 11,000 400 - 163.2 20.3 - 0,059 4,015 0.346 0.462 0.026 NT NT NEW NEW NEW NEW NEW NEW NEW NEW NEW NEW	Cadmium	1.000	34.0	~	40.9	1.4	~	27.1	15.5	2.99	2.39	1.00	NT
Copper 76,000 2,500 - 20,440.0 677.4 - 152 531 293 J 298 17 NT Lead 11,000 400 - 1,000 400 - 163 28.6 1380.1 170.1 38.8 NT Mercury 610 20.0 - 613.2 20.3 - 0.059 -0.015 0.346 0.462 0.026 NT Nickel 7,500 1,400 - 1383.0 45.0 - 100 399 49.0 344 17.2 NT Selenium 10,000 340 - 10,220.0 340.0 - 45.38 45.77 45.67 45.82 45.28 NT Selenium 10,000 340 - 10,220.0 340.0 - 45.38 45.77 45.67 45.82 45.28 NT Selenium 10,000 340 - 10,220.0 340.0 - 43.91 J 4.12 J 5.08 J 4.62 J 4.35 J NT Selenium 100 5.40 - 10,220.0 340.0 - 20.3 25.5 J 4.11 J 4.62 J 4.35 J NT Selenium 14,000 470 - 2,044 67.7 - 20.3 25.5 J 44.1 34 36 NT Selenium 14,000 470 - 2,044 67.7 - 20.3 25.5 J 44.1 34 36 NT Selenium 14,000 470 - 5.000 - - 5.00 NT NT NT NT NT NT NT NT NT NT NT NT NT				~	~	~	~						
Lead				~	20 440 0	677 4	~						
Mercury 610 20.0 - 613.2 20.3 - 0.059 <0.015 0.346 0.462 0.026 NT					· ·								
Nickel 7,500 1,400 - 1,383.0 45.0 - 100 399 49.0 34.4 17.2 NT Selenium 10,000 340 - 10,220.0 340.0 - 6,338 6,77 < 6,687 5,882 6,589													
Selenium													
Silver				~			~						
Thallium 160 5.40 - 163.5 5.4 - 2.044 67.7 - 20.3 25.5 44.1 34 34 36 NT NT NT NT NT NT NT NT NT NT NT NT NT				~			~						
Vanadium				~			~						
Zinc				~			~						
SPLP - 14g rcp (ug/l)	Zinc			~			~						
Antimony Arsenic Arsen		2.2,000			22,000	,			77			1	1
Arsenic - 500 - - 500 NT <th< td=""><td>Antimony</td><td>~</td><td>~</td><td>60</td><td>~</td><td>~</td><td>19,000</td><td>NT</td><td>NT</td><td><5.00</td><td>NT</td><td>NT</td><td>NT</td></th<>	Antimony	~	~	60	~	~	19,000	NT	NT	<5.00	NT	NT	NT
Barium - - 10,000 - - 22,000 NT NT <250 NT	Arsenic	~	~		~	~							
Beryllium ~ 40 ~ ~ 360 NT <	Barium	~	~		~	~							
Cadmium - - 50 - - 15 NT NT V <2.50 NT	Beryllium	~	~		~	~							
Chromium - - 500 - - - NT N	Cadmium	~	~		~	~							
Copper - - - 500 NT NT 957 NT NT NT NT Lead NT <t< td=""><td></td><td>~</td><td>~</td><td></td><td>~</td><td>~</td><td>~</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		~	~		~	~	~						
Lead ~ ~ 150 ~ ~ 120,000 NT NT 110 NT <t< td=""><td></td><td>~</td><td>~</td><td></td><td>~</td><td>~</td><td>500</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		~	~		~	~	500						
Nickel ~ ~ 1,000 ~ ~ 2,900,000 NT NT <25.0 NT		~	~		~								
Selenium - - 500 - - 500 NT	Nickel	~	~		~	~							
Silver - - - 360 - - - 100 NT <	Selenium	~	~		~	~							
Thallium	Silver	~	~		~	~							
Vanadium 500 4,400 NT NT <25.0 NT NT NT	Thallium	~	~		~	~							
	Vanadium	~	~		~	~							
	Zinc	~	~	50,000	~	~	6,500	NT	NT	NT	NT	NT	NT

		Existing CT RSR Criter	ria	F	Revised CT RSR Criter	ia			Sample	Locations		
	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	COMP-1 (SB-4, SB-5, &	COMP-2 (SB-6, SB-7, &	SB-1	SB-1d	SB-2	SB-3
Parameter	I/C DEC	KL3 DLC	GB FWIC	I/C DLC	KES DEC	GBFWC	SB-9)	SB-8)	36-1	36-1u	36-2	36-3
Sampling Date							9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08
Sample Depth (feet)							0-2 (composite)	0-2 (composite)	1-3	1-3 (duplicate)	1-2	0-1
Laboratory Report Number							LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	7 LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-1994
PAHs - sludge (mg/kg dry wt) by 8270												
Acenaphthene	2,500	1,000	84	2500	1000	30	<0.180	<0.192	NT	NT	NT	NT
Acenaphthylene	2,500	1,000	84	2500	1000	26	<0.180	<0.192	NT	NT	NT	NT
Anthracene	2,500	1,000	400	2500	1000	1	<0.180	<0.192	NT	NT	NT	NT
Benzo(a)anthracene	7.80	1	1	7.8	1	2	0.396	<0.192	NT	NT	NT	NT
Benzo(a)pyrene	1	1	1	1	1	1	0.374	<0.192	NT	NT	NT	NT
Benzo(b)fluoranthene	7.80	1	1	7.8	1	1.8	0.429	<0.192	NT	NT	NT	NT
Benzo(g,h,i)perylene	2,500	1,000	42	2500	1000	29.6	0.235	<0.192	NT	NT	NT	NT
Benzo(k)fluoranthene	78.0	8.40	1	78	8.4	1	0.184	<0.192	NT	NT	NT	NT
Chrysene	780	84.0	1	780	84	9.4	0.496	<0.192	NT	NT	NT	NT
Dibenz(a,h)anthracene	1	1	1	1	1	1	<0.180	<0.192	NT	NT	NT	NT
Fluoranthene	2,500	1,000	56	2500	1000	1.6	0.570	<0.192	NT	NT	NT	NT
Fluorene	2,500	1,000	56	2500	1000	7.8	<0.180	<0.192	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene	7.80	1	1	7.8	1	3	0.225	<0.192	NT	NT	NT	NT
2-Methylnaphthalene	2,500	474	9.8	~	~	~	<0.180	<0.192	NT	NT	NT	NT
Naphthalene	2,500	1,000	56	1000	135.5	5.2	<0.180	<0.192	NT	NT	NT	NT
Phenanthrene	2,500	1,000	40	~	~	4.6	0.464	<0.192	NT	NT	NT	NT
Pyrene	2,500	1,000	40	~	~	9.2	0.65	<0.192	NT	NT	NT	NT
SPLP - PAHs (ug/l)			(GA GWPC X 10)			(GA GWPC X 10)						
Acenaphthene	~	~	4200	~	~	4,200	<0.30 UJ	NT	NT	NT	NT	NT
Acenaphthylene	~	~	4200	~	~	4,200	<0.30 UJ	NT	NT	NT	NT	NT
Anthracene	~	~	20,000	~	~	10,000	<0.20 UJ	NT	NT	NT	NT	NT
Benzo(a)anthracene	~	~	0.6	~	~	2	0.080 UJ	NT	NT	NT	NT	NT
Benzo(a)pyrene	~	~	2.0	~	~	2	<0.10 UJ	NT	NT	NT	NT	NT
Benzo(b)fluoranthene	~	~	0.8	~	~	2	<0.050 UJ	NT	NT	NT	NT	NT
Benzo(g,h,i)perylene	~	~	2,100	~	~	5	<0.50 UJ	NT	NT	NT	NT	NT
Benzo(k)fluoranthene	~	~	5.0	~	~	2	<0.20 UJ	NT	NT	NT	NT	NT
Chrysene	~	~	48	~	~	11	<0.20 UJ	NT	NT	NT	NT	NT
Dibenz(a,h)anthracene	~	~	5.0	~	~	2	<0.50 UJ	NT	NT	NT	NT	NT
Fluoranthene	~	~	2,800	~	~	2,800	<0.50 UJ	NT	NT	NT	NT	NT
Fluorene	~	~	2,800	~	~	2,800	<1.00 UJ	NT	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene	~	~	5.0	~	~	2	<0.50 UJ	NT	NT	NT	NT	NT
Naphthalene	~	~	490	~	~	140	<1.00 UJ	NT	NT	NT	NT	NT
Phenanthrene	~	~	2,000	~	~	3,500	1.07 UJ	NT	NT	NT	NT	NT
Pyrene	~	~	2,000	~	~	2,100	<1.00 UJ	NT	NT	NT	NT	NT
Percent Solids (percent) (%)												
Solids, total	~	~	~	~	~	~	91.4	86.8	88.3	86.0	94.7	NT

Notes:

- 1. NT = Not tested.

- NT = Not tested.
 NE = Not applicable
 ~ = No Standard available
 A bold outlined cell indicates that the minumum laboratory reporting limit exceeds one or more of the regulatory criteria.
 A shaded cell indicates value is in exceedence of a CT Remediation Standard Regulation. Specific exceedences are indicated as follows:
- † Value exceeds Industrial/Commercial Direct Exposure Criteria
- + Value exceeds Residential Direct Exposure Criteria

- * Value exceeds Residential Direct Exposure Criteria
 * Value exceeds Groundwater Class B Pollutant Mobility Criteria
 * Results are in same units as analyte.
 * Results are only compared to existing CT RSRs. No exceedances to revised CT RSRs are called out. Revised CT RSRs shown for informational purposes only. A summary of exceedance changes due to the revised RSRs is provided in Table 7.
- 8. Detections and select non detections are shown on this table. For complete results see laboratory reports.
 U = the compound was analyzed for, but was not detected at the associated value due to blank
- contamination or variance from other quality control limits.

 J = the associated value is an estimated quantity. The reported result is qualitatively accurate but
- quantitatively imprecise.

 UJ = the compound was analyzed for, but was not detected, and the associated value is an estimated value due to the variance from quality control limits.

		Existing CT RSR Criter	ria	F	Revised CT RSR Criter	ia			Sample Loca	ations				
Parameter	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	SB-5b	SB-6b	SB-6d		SB-16	ТВ	ЕВ	
Sampling Date							9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/9/2008 &	9/11/08
Sample Depth (feet)							2-4	2-4	6-8	2-4	6-8 (duplicate of SB-6d)	Trip Blank	Equipmen	
Laboratory Report Number							LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIN	MT-19947 LIMT-19446 & LIMT-19947	7 LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-1994		LIMT-19551
VOCs 8260 solid (mg/kg)													8260 water (ug/l)	
Acetone	1,000	500	140	1,000	500	1,000	NT	NT	<0.057	UJ NT	<0.057 UJ	<0.10 UJ	Acetone	<5.0
Acrylonitrile	11	1.1	0.1	10.6	.12	.048	NT	NT	<0.006	NT	<0.006	<0.010	Acrylonitrile	<2.0
tert-Amylmethyl Ether	~	~	~	~	~	~	NT	NT	<0.001	NT	<0.001	<0.001	tert-Amylmethyl Ether	<0.5
Benzene	200	21	0.2	57.2	.7	2.5	NT	NT	<0.002	NT	<0.002	<0.002	Benzene	<0.5
Bromobenzene Bromochloromethane	~	~	~	~	~	~	NT NT	NT NT	<0.002 <0.002	NT NT	<0.002 <0.002	<0.002 <0.002	Bromobenzene Bromochloromethane	<0.5 <0.5
Bromodichloromethane	92	9.9	0.11	92.0	1.1	0.04	NT	NT	<0.002	NT	<0.002	<0.002	Bromodichloromethane	<0.5
Bromoform	720	78	0.8	715.4	8.3	248	NT.	NT	<0.002	NT	<0.002	<0.002	Bromoform	<0.5 U
Bromomethane	1,000	95	2	1,000.0	33.9	0.1	NT	NT	<0.006	NT	<0.006	<0.010	Bromomethane	<0.5
2-Butanone (MEK)	1,000	500	80	1,000	500	1,000.0	NT	NT	<0.023	UJ NT	<0.023 UJ	<0.040 UJ	2-Butanone (MEK)	<2.0
tert-Butyl Alcohol	~	~	~	~	~	~	NT	NT	< 0.023	UJ NT	<0.023 UJ	<0.040 UJ	tert-Butyl Alcohol	<5.0 U.
n-Butylbenzene	1,000	500	14	1,000	500	2.0	NT	NT	< 0.002	NT	<0.002	<0.002	n-Butylbenzene	<0.5
sec-Butylbenzene	1,000	500	14	1000	500	2.0	NT	NT	<0.002	NT	<0.002	<0.002	sec-Butylbenzene	<0.5
tert-Butylbenzene	1,000	500	14	~	~	~	NT	NT	<0.002	NT	<0.002	<0.002	tert-Butylbenzene	<0.5
tert-Butylethyl Ether	~	~	~	~	~	~	NT	NT	<0.001	NT	<0.001	<0.001	tert-Butylethyl Ether	<0.5
Carbon Disulfide	1,000	500	140	1000	500	30.0	NT	NT NT	<0.006	NT	<0.006	<0.006	Carbon Disulfide	<0.5
Carbon Tetrachloride Chlorobenzene	44 1,000	4.7 500	20	44 1000	3.2 500	0.1 43.0	NT NT	NT NT	<0.002 <0.002	NT NT	<0.002 <0.002	<0.002 <0.002	Carbon Tetrachloride Chlorobenzene	<0.5 <0.5
Chlorodibromomethane	68	7.3	0.1	~	~	~0.0	NT	NT	<0.002	NT	<0.002	<0.002	Chlorodibromomethane	<0.5
Chloroethane	~	~	~	1000	500	237.0	NT	NT	<0.012	NT	<0.012	<0.020	Chloroethane	<0.5
Chloroform	940	100	1.2	1000	67.7	2.0	NT	NT	<0.003	NT	<0.003	<0.020	Chloroform	<0.5
Chloromethane	440	47	0.54	1000	176.1	3.0	NT	NT	<0.006	NT	<0.006	<0.010	Chloromethane	<0.5
2-Chlorotoluene	~	~	2	1000	135.5	4.0	NT	NT	< 0.002	NT	<0.002	<0.002	2-Chlorotoluene	<0.5
4-Chlorotoluene	~	~	2	1000	135.5	3.6	NT	NT	< 0.002	NT	<0.002	<0.002	4-Chlorotoluene	<0.5
1,2-Dibromo-3-Chloropropane	4.1	0.44	~	~	~	~	NT	NT	<0.002	NT	<0.002	<0.002	1,2-Dibromo-3-Chloropropane	<0.5
1,2-Dibromoethane	0.067	0.007	0.1	~	~	~	NT	NT	<0.001	NT	<0.001	<0.001	1,2-Dibromoethane	<0.50
Dibromomethane	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	<0.002	Dibromomethane	<0.5
1,2-Dichlorobenzene	1,000	500	3.1	1,000	500	46.0	NT	NT	<0.002	NT NT	<0.002	<0.002	1,2-Dichlorobenzene	<0.5
1,3-Dichlorobenzene	1,000	500	120	1000	67.7	2.4	NT	NT	<0.002	NT	<0.002	<0.002	1,3-Dichlorobenzene	<0.5
1,4-Dichlorobenzene trans-1,4-Dichloro-2-Butene	240	26	15	143.1	10.5	18.8	NT NT	NT NT	<0.002 <0.003	NT NT	<0.002 <0.003	<0.002 <0.004	1,4-Dichlorobenzene trans-1,4-Dichloro-2-Butene	<0.5 <0.5 U.
Dichlorodifluoromethane	~	~	~	~	~	2.0	NT NT	NT	<0.012	NT	<0.012	<0.020	Dichlorodifluoromethane	<0.5
1,1-Dichloroethane	1,000	500	14	1,000	500	15.0	NT	NT	<0.002	NT	<0.002	<0.002	1,1-Dichloroethane	<0.5
1,2-Dichloroethane	63	6.7	0.2	63	0.7	0.12	NT	NT	<0.002	NT	<0.002	<0.002	1,2-Dichloroethane	<0.5
1,1-Dichloroethylene	9.5	1.0	1.4	1000	500	2.3	NT	NT	< 0.003	NT	<0.003	<0.004	1,1-Dichloroethylene	<0.5
cis-1,2-Dichloroethylene	1,000	500	14	1000	500	18.6	NT	NT	< 0.002	NT	<0.002	<0.002	cis-1,2-Dichloroethylene	<0.5
trans-1,2-Dichloroethylene	1,000	500	20	1000	500	10.7	NT	NT	< 0.002	NT	<0.002	<0.002	trans-1,2-Dichloroethylene	<0.5
1,2-Dichloropropane	84	9.0	1	159	11.6	0.2	NT	NT	<0.002	NT	<0.002	<0.002	1,2-Dichloropropane	<0.5
1,3-Dichloropropane	~	~	~	~	~	~	NT	NT	<0.001	NT NT	<0.001	<0.001	1,3-Dichloropropane	<0.5
2,2-Dichloropropane	~	~	~	~	~	~	NT NT	NT	<0.002	NT NT	<0.002	<0.002	2,2-Dichloropropane	<0.5
1,1-Dichloropropene	32	2.4	0.1	~ 57.2	~ 7	~	NT NT	NT NT	<0.002	NT NT	<0.002 <0.001	<0.002 <0.001	1,1-Dichloropropene	<0.5 <0.5
cis-1,3-Dichloropropene	32	3.4	0.1	57.2 57.2	./	.1	NT NT	NT NT	<0.001 <0.001	NT NT	<0.001	<0.001	cis-1,3-Dichloropropene	<0.5 <0.5
trans-1,3-Dichloropropene Diethyl Ether	32	3.4	0.1	57.2	.7	.1	NT NT	NT NT	<0.001	NT NT	<0.001	<0.001	trans-1,3-Dichloropropene Diethyl Ether	<0.5
Dietnyl Ether Diisopropyl Ether	~	~	~	~	~	~	NT NT	NT NT	<0.012	NT NT	<0.012	<0.020	Dietriyi Ether Diisopropyl Ether	<0.5
Dilsopropyi Etriei 1.4-Dioxane	~	~	~	~	~	~	NT NT	NT	<0.001	UJ NT	<0.001 <0.057 UJ	<0.020 <0.10 UJ	1.4-Dioxane	<50.0 U.
Ethyl Benzene	1,000	500	10.1	1000	500	35.0	NT	NT	<0.002	NT NT	<0.002	<0.002	Ethyl Benzene	<0.5
Hexachlorobutadiene	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	<0.002	Hexachlorobutadiene	<0.4
2-Hexanone	~	~	~	~	~	~	NT	NT	<0.012	NT	<0.012	<0.020	2-Hexanone	<10.0
Isopropylbenzene	1,000	500	132	1,000	500	18.0	NT	NT	<0.002	NT	<0.002	<0.002	Isopropylbenzene	<0.5
p-Isopropyltoluene	1,000	500	41.8	~	~	18.6	NT	NT	<0.002	NT	<0.002	<0.002	p-Isopropyltoluene	<0.5
MTBE	1,000	500	20	1,000	500	440.0	NT	NT	<0.003	NT NT	<0.003	<0.004	MTBE	<0.5
Methylene Chloride	760	82	1	763.1	8.8	3.2	NT	NT	<0.012	NT	<0.012	<0.020	Methylene Chloride	<0.5
MIBK Naphthalene	1,000 2,500	500 1,000	14 56	1,000	500	1,000.0	NT NT	NT NT	<0.012 <0.006	UJ NT	<0.012 <0.006 UJ	<0.020 <0.004 UJ	MIBK Naphthalene	<2.0 <0.5
Naphthalene n-Propylbenzene	2,500 1,000	1,000 500	14	1,000	~ 500	14.0	NT NT	NT NT	<0.006 <0.002	UJ NI NT	<0.006 UJ <0.002	<0.004 UJ <0.002	Naphthalene n-Propylbenzene	<0.5 <0.5
n-Propyibenzene Styrene	1,000	500	20	1,000	135.4	48.0	NT NT	NT NT	<0.002	NT NT	<0.002	<0.002	Styrene	<0.5 <0.5
1,1,1,2-Tetrachloroethane	220	24	0.2	220	2.5	0.08	NT NT	NT	<0.002	NT NT	<0.002	<0.002	1,1,1,2-Tetrachloroethane	<0.5
1,1,2,2-Tetrachloroethane	29	3.1	0.1	29.0	2.3	0.028	NT NT	NT	<0.002	NT	<0.002	<0.002	1,1,2,2-Tetrachloroethane	<0.5
Tetrachloroethylene	110	12	1	10.6	0.8	1.6	NT	NT NT	<0.002	NT	<0.002	<0.002	Tetrachloroethylene	<0.5

	l F	Existing CT RSR Criter	ria	l s	evised CT RSR Criter	a			Sample Locations			1	l	1
Parameter	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	SB-5b	SB-6b	SB-6d	SB-9b	SB-16	ТВ	ЕВ	
Sampling Date							9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/9/2008 & 9/	11/08
Sample Depth (feet)							2-4	2-4	6-8	2-4	6-8 (duplicate of SB-6d)	Trip Blank	Equipment B	
Laboratory Report Number							LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-1	9947 LIMT-19446 & LIMT-19947		LIMT-19446 & LIN	
Tetrahydrofuran	~	~	~	753.1	55.0	9.9	NT	NT	<0.006 UJ	NT	<0.006 UJ	<0.010 UJ	Tetrahydrofuran	<5.0
Toluene	1,000	500	67	1,000.0	453.9	117.5	NT	NT	<0.002	NT	<0.002	<0.002	Toluene	<0.5
1,2,3-Trichlorobenzene	~	~	~	~	~	~	NT	NT	<0.003	NT	<0.003	<0.002	1,2,3-Trichlorobenzene	<0.5
1,2,4-Trichlorobenzene	2,500	680	14	1,000.0	500	2.4	NT	NT	<0.003	NT	<0.003	<0.010	1,2,4-Trichlorobenzene	<0.5
1,1,1-Trichloroethane	1,000	500	40	1,000	500	51.0	NT	NT	<0.002	NT	<0.002	<0.002	1,1,1-Trichloroethane	<0.5
1,1,2-Trichloroethane	100	11	1	100.0	7.3	0.2	NT	NT	<0.002	NT	<0.002	<0.002	1,1,2-Trichloroethane	<0.5
Trichloroethylene	520	56	1	64.3	0.7	0.52	NT	NT	<0.002	NT	<0.002	<0.002	Trichloroethylene	<0.5
Trichlorofluoromethane	1,000	500	260	1,000	500.0	35.0	NT	NT	<0.006	NT	<0.006	<0.010	Trichlorofluoromethane	<0.5
1,2,3-Trichloropropane	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	<0.002	1,2,3-Trichloropropane	<0.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	~	~	~	~	~	~	NT	NT	<0.006	NT	<0.006	<0.010	1,1,2-Trichloro-1,2,2-Trifluoroetha	<0.5
1,2,4-Trimethylbenzene	1,000	500	70	1,000	500	2.4	NT	NT	<0.002	NT	<0.002	<0.002	1,2,4-Trimethylbenzene	<0.5
1,3,5-Trimethylbenzene	1,000 3.0	500	70 0.4	1,000	500 0.1	1.9 38.0	NT NT	NT NT	<0.002	NT NT	<0.002	<0.002	1,3,5-Trimethylbenzene	<0.5
Vinyl Chloride	3.0 1.000	0.32 500	0.4 19.5	8.0 1.000	0.1 500	38.0 41.0	NT NT	NT NT	<0.006 <0.003	NT NT	<0.006 <0.003	<0.010 <0.004	Vinyl Chloride	<0.5
m + p Xylene	1,000 1,000	500 500	19.5 19.5	1,000	500 500	41.0 41.0	NI NT	NI NT	<0.003 <0.002	NT NT	<0.003 <0.002	<0.004 <0.002	m + p Xylene o-Xylene	<1.0 <0.5
o-Xylene Cyanide (mg/kg)	1,000	500	19.5	1,000	300	41.0	INI	INI	<0.002	INI	<0.002	<0.002	o-xylene cyanide-total (mg/l)	<u.0< td=""></u.0<>
Cvanide (mg/kg)	41000	1400	~	40880	1354.8	~	190	3.9	NT	35	NT	NT	Cvanide	<0.010
SPLP-cyanide (mg/l)	41000	1400	~	40000	1334.0	~	190	3.9	INI	33	INI	INI	SPLP cyanide	CO.010
Cvanide (mg/r)	~	~	2	~	~	0.52	0.283	NT	NT	NT	NT	NT	or Er cyanide	NT
SPLP-mercury (mg/l leachate)			-			0.02	0.200	111	13.1		- 131	111	SPLP-mercury	1111
Mercury	~	~	0.02	~	~	77	NT	NT	NT	NT	NT	NT	or Er mereury	NT
chromium 6 dry weight (mg/kg dry wt)			0.02				.,,		1,,,				chromium 6	
Chromium (+6)	100	100	~	613.2	20.3	~	<1.82	<1.80 UJ	NT	NT	NT	NT		NT
ETPH dry weight (mg/kg dry weight)													etph water (mg/l)	
Extractable TPH (ETPH)	2,500	500	2,500	~	~	2,500	NT	NT	23	NT	NT	NT	Extractable TPH (ETPH)	<0.075
Metals (15pp) sicp (mg/kg dry wt)	, , , , ,		,			,							6020 h2o 14rcp (ug/L)	
Antimony	8,200	27.0	~	8,176.0	271.0	~	8.10	<4.58	NT	<4.39	NT	NT	Antimony	<5.00
Arsenic	10.0	10.0	~	10.0	10.0	~	15.8 ^{†+}	11 ^{†+}	NT	8.29	NT	NT	Arsenic	<2.00
Barium	140,000	4,700	~	50,000	13,548	~	83.5	57.9	NT	67.2	NT	NT	Barium	<250
Beryllium	2.00	2.00	~	408.8	13.6	~	<0.29	<0.29	NT	<0.28	NT	NT	Beryllium	<2.00
Cadmium	1,000	34.0	~	40.9	1.4	~	986 ⁺	47.9 ⁺	NT	5.70	NT	NT	Cadmium	<2.50
Chromium	100	100	~	~	~	~	1020 ^{†+}	123 ^{†+}	NT	29.2	NT	NT	Chromium	<50.0
Copper	76,000	2,500	~	20,440.0	677.4	~	304	470	NT	41.0	NT	NT	Copper	<25.0
Lead	1,000	400	~	1,000	400	~	79.9	10.4	NT	67.2	NT	NT	Lead	5.62
Mercury	610	20.0	~	613.2	20.3	~	0.029	0.020	NT	0.077	NT	NT	Mercury	<0.00010
Nickel	7,500	1,400	~	1,363.0	45.0	~	189	290	NT	56.3	NT	NT	Nickel	<25.0
Selenium	10,000	340	~	10,220.0	340.0	~	<5.80	<5.73	NT	<5.48	NT	NT	Selenium	<25.0
Silver	10,000	340	~	10,220.0	340.0	~	4.77 J	7.49 J	NT	3.73	J NT	NT	Silver	<2.50
Thallium	160	5.40	~	163.5	5.4	~	<3.48 UJ	<3.44 UJ	NT		UJ NT	NT	Thallium	2.91
Vanadium	14,000	470	~	2,044	67.7	~	27.6	50.4	NT	25.1	NT	NT	Vanadium	<25.0
Zinc	610,000	20,000	~	50,000	20,322.6	~	1,870	537	NT	71.1	NT	NT	Zinc	<100
SPLP - 14 ga rcp (ug/l)						40	.						SPLP 14 ga rcp	NT
Antimony	~	~	60	~	~	19,000	<5.00	NT	NT	NT	NT	NT		
Arsenic	~	~	500	~	~	50	<2.00	<2.00	NT	NT	NT	NT		
Barium	~	~	10,000 40	~	~	22,000	NT NT	NT NT	NT NT	NT NT	NT NT	NT NT		
Beryllium Cadmium	~	~	40 50	~	~	360 15	592*	7.97	NT NT	NT NT	NT NT	NT NT		
Cadmium Chromium	~	~	500	~	~	15	190	7.97 <50.0	NT NT	NT NT	NT NT	NT NT		
Copper	~	~	13,000	~	~	~ 500	190	<50.0 <25.0	NT NT	NT NT	NT NT	NT NT		
Lead	~	~	150	~	~	120,000	9.42	9.66	NT NT	NT NT	NT NT	NT NT		
Nickel	~	~	1,000	~	~	2,900,000	51.2	<25.0	NT NT	NT NT	NT NT	NT		
Selenium	~	~	500	~	~	500	NT	NT	NT	NT NT	NT NT	NT		
Silver	~	~	360	~	~	100	NT	<2.50	NT	NT	NT	NT		
Thallium	~	~	50	~	~	1.480	1.68	NT	NT	NT NT	NT	NT		
Vanadium	~	~	500	~	~	4,400	<25.0	<25.0	NT	NT	NT	NT		
Zinc	~	~	50,000	~	~	6,500	370	NT	NT	NT	NT	NT		
		1	,000			2,500		<u> </u>	<u> </u>			<u> </u>		

		Existing CT RSR Crite	ria		Revised CT RSR Crite	ria			Sample Locations	_					
Parameter	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	SB-5b	SB-6b	SB-6d	SB-9b	SB-16	ТВ	ЕВ		
Sampling Date							9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/9/2008 & 9	9/11/08	
Sample Depth (feet)							2-4	2-4	6-8	2-4	6-8 (duplicate of SB-6d)	Trip Blank	Equipment	Blank	
Laboratory Report Number							LIMT-19446 & LIMT-19947	7 LIMT-19446 & LIMT-199	47 LIMT-19446 & LIMT-1994	7 LIMT-19446 & LIMT-19	947 LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	7 LIMT-19446 & L	IMT-19551	
PAHs - sludge (mg/kg dry wt) by 8270													pah - lo h2o all (ug/l)		
Acenaphthene	2,500	1,000	84	2500	1000	30	NT	NT	NT	NT	NT	NT	Acenaphthene	< 0.30	UJ
Acenaphthylene	2,500	1,000	84	2500	1000	26	NT	NT	NT	NT	NT	NT	Acenaphthylene	< 0.30	UJ
Anthracene	2,500	1,000	400	2500	1000	1	NT	NT	NT	NT	NT	NT	Anthracene	< 0.20	
Benzo(a)anthracene	7.80	1	1	7.8	1	2	NT	NT	NT	NT	NT	NT	Benzo(a)anthracene	< 0.050	
Benzo(a)pyrene	1	1	1	1	1	1	NT	NT	NT	NT	NT	NT	Benzo(a)pyrene	< 0.100	
Benzo(b)fluoranthene	7.80	1	1	7.8	1	1.8	NT	NT	NT	NT	NT	NT	Benzo(b)fluoranthene	< 0.050	
Benzo(g,h,i)perylene	2,500	1,000	42	2500	1000	29.6	NT	NT	NT	NT	NT	NT	Benzo(g,h,i)perylene	< 0.500	
Benzo(k)fluoranthene	78.0	8.40	1	78	8.4	1	NT	NT	NT	NT	NT	NT	Benzo(k)fluoranthene	< 0.200	
Chrysene	780	84.0	1	780	84	9.4	NT	NT	NT	NT	NT	NT	Chrysene	< 0.20	
Dibenz(a,h)anthracene	1	1	1	1	1	1	NT	NT	NT	NT	NT	NT	Dibenz(a,h)anthracene	< 0.500	
Fluoranthene	2,500	1,000	56	2500	1000	1.6	NT	NT	NT	NT	NT	NT	Fluoranthene	< 0.50	
Fluorene	2,500	1,000	56	2500	1000	7.8	NT	NT	NT	NT	NT	NT	Fluorene	<1.00	
Indeno(1,2,3-cd)pyrene	7.80	1	1	7.8	1	3	NT	NT	NT	NT	NT	NT	Indeno(1,2,3-cd)pyrene	< 0.500	
2-Methylnaphthalene	2,500	474	9.8	~	~	~	NT	NT	NT	NT	NT	NT	2-Methylnaphthalene	<1.00	UJ
Naphthalene	2,500	1,000	56	1000	135.5	5.2	NT	NT	NT	NT	NT	NT	Naphthalene	<1.00	UJ
Phenanthrene	2,500	1,000	40	~	~	4.6	NT	NT	NT	NT	NT	NT	Phenanthrene	< 0.05	
Pyrene	2,500	1,000	40	~	~	9.2	NT	NT	NT	NT	NT	NT	Pyrene	<1.00	
SPLP - PAHs (ug/l)			(GA GWPC X 10)			(GA GWPC X 10)							SPLP - PAHs	NT	
Acenaphthene	~	~	4200	~	~	4,200	NT	NT	NT	NT	NT	NT			
Acenaphthylene	~	~	4200	~	~	4,200	NT	NT	NT	NT	NT	NT			
Anthracene	~	~	20,000	~	~	10,000	NT	NT	NT	NT	NT	NT			
Benzo(a)anthracene	~	~	0.6	~	~	2	NT	NT	NT	NT	NT	NT			
Benzo(a)pyrene	~	~	2.0	~	~	2	NT	NT	NT	NT	NT	NT			
Benzo(b)fluoranthene	~	~	0.8	~	~	2	NT	NT	NT	NT	NT	NT			
Benzo(g,h,i)perylene	~	~	2,100	~	~	5	NT	NT	NT	NT	NT	NT			
Benzo(k)fluoranthene	~	~	5.0	~	~	2	NT	NT	NT	NT	NT	NT			
Chrysene	~	~	48	~	~	11	NT	NT	NT	NT	NT	NT			
Dibenz(a,h)anthracene	~	~	5.0	~	~	2	NT	NT	NT	NT	NT	NT			
Fluoranthene	~	~	2,800	~	~	2,800	NT	NT	NT	NT	NT	NT			
Fluorene	~	~	2,800	~	~	2,800	NT	NT	NT	NT	NT	NT			
Indeno(1,2,3-cd)pyrene	~	~	5.0	~	~	2	NT	NT	NT	NT	NT	NT			
Naphthalene	~	~	490	~	~	140	NT	NT	NT	NT	NT	NT			
Phenanthrene	~	~	2,000	~	~	3,500	NT	NT	NT	NT	NT	NT			
Pyrene	~	~	2,000	~	~	2,100	NT	NT	NT	NT	NT	NT			
Percent Solids (percent) (%)							ĺ								
Solids, total	~	~	~	~	~	~	86.3	87.4	86.4	91.3	86.4	NT		1	

- 1. NT = Not tested.

- NT = Not tested.
 NE = Not applicable
 ~ = No Standard available
 A bold outlined cell indicates that the minumum laboratory reporting limit exceeds one or more of the regulatory criteria.
 A shaded cell indicates value is in exceedence of a CT Remediation Standard Regulation. Specific exceedences are indicated as follows:
- † Value exceeds Industrial/Commercial Direct Exposure Criteria
- + Value exceeds Residential Direct Exposure Criteria

- * Value exceeds Groundwater Class B Pollutant Mobility Criteria

 6. RSR criteria are in same units as analyte.

 7. Results are only compared to existing CT RSRs. No exceedances to revised CT RSRs are called out. Revised CT RSRs shown for informational purposes only.
- A summary of exceedance changes due to the revised RSRs is provided in Table 7.
- 8. Detections and select non detections are shown on this table. For complete results see laboratory
- reports.
 U = the compound was analyzed for, but was not detected at the associated value due to blank contamination or variance from other quality control limits.

 J = the associated value is an estimated quantity. The reported result is qualitatively accurate but
- quantitatively imprecise.

 UJ = the compound was analyzed for, but was not detected, and the associated value is an estimated value due to the variance from quality control limits.

		xisting CT RSR Crite	ria	Pr	oposed CT RSR Crite	eria	SAMPLING	LOCATION	
Parameter	I/C VC	RES VC	SWPC	I/C VC	RES VC	SWPC	MW	MW DUP	TRIP BLANK
Sampling Date							9/23/08	9/23/08	9/23/08
Sample Depth							NA	NA	NA
Laboratory Report Number							LIMT-19963	LIMT-19963	LIMT-19963
6020 h2o 14rcp (ug/L)									
Antimony	~	~	86000	~	~	1,900.0	20.9	17.0	NT
Arsenic	~	~	4	~	~	5.0	4.32*	3.80	NT
Barium	~	~	~	~	~	2,200	<250	<250	NT
Beryllium	~	~	4	~	~	36.0	<2.00	<2.00	NT
Cadmium	~	~	6	~	~	1.5	1000*	931*	NT
Chromium, trivalent	~	~	1200	~	~	~	NT	NT	NT
Chromium, hexavalent	~	~	110	~	~	110.0	NT	NT	NT
Chromium	~	~	~	~	~	420.0	424	381	NT
Copper	~	~	48	~	~	50.0	1040*	862*	NT
Lead	~	~	52	~	~	12.0	254*	179*	NT
Nickel		_	880	_	_	7.7	584	514	NT
Selenium			50	~	~	290.0	<25.0	<25.0	NT
Silver			12	~	~	50.0	2.99 J	2.52 J	NT
Thallium			63	1 2		10.0	1.18	<1.00	NT
Vanadium	~	~	03	1 ~~	~	148.0	<25.0	<1.00 <25.0	NT NT
Zinc			123		~	650.0	1420* J	1210* J	NT
8260 water (ug/l)	-	~	123	~	-	030.0	1420 3	1210 3	INI
Acetone	50,000	50,000	_	50000	50000	10,000.0	<50.0	<50.0	<5.0
Acrylonitrile	50,000	50,000	20.0	93.6	2.4	20	<20.0	<20.0	<2.0
tert-Amylmethyl Ether	~	~	20.0	95.0 ~	2.4	~	<5.0	<5.0	<0.5
Benzene	530	130	710	304	125	623	<5.0 <5.0	<5.0 <5.0	<0.5
		~	710	~			<5.0 <5.0	<5.0 <5.0	<0.5
Bromobenzene Bromochloromethane	~ ~	~	~	~	~ ~	~ ~	<5.0 <5.0	<5.0 <5.0	<0.5 <0.5
Bromodichloromethane	73.0	2.3	~	80	2	1394	<5.0 <5.0	<5.0 <5.0	<0.5
			40.000	~			<10.0	<10.0	
Bromoform	2,300	75.0	10,800	389	32	1240 0.5	<10.0 <20.0	<20.0	<1.0 <2.0
Bromomethane	50,000	50,000	~	50000	50000	10000	<20.0 <20.0	<20.0 <20.0	<2.0
2-Butanone (MEK)	50,000	50,000	~		50000	10000	<50.0	<20.0 <50.0	<2.0 <5.0
tert-Butyl Alcohol	24 000	1,500	~	17780	1295	10			<0.5
n-Butylbenzene	21,000		~		1175	10	<5.0	<5.0	
sec-Butylbenzene	20,000	1,500	~	16143	11/5		<5.0	<5.0	<0.5
tert-Butylbenzene	~	~	~	~		10	<5.0	<5.0	<0.5
tert-Butylethyl Ether	~	~	~	~	~	~	<5.0	<5.0	<0.5
Carbon Disulfide	~	-	~	~	~	150	<5.0	<5.0	<0.5
Carbon Tetrachloride	14.0	5.3	132	13.7	5.6	133	<5.0	<5.0	<0.5
Chlorobenzene	23,000	1,800	420,000	26684	2166	470	<5.0	<5.0	<0.5
Chlorodibromomethane	~	~	1,020	~	~	~	<5.0	<5.0	<0.5
Chloroethane	29,000	12,000	~	28878	11828	10000	<10.0	<10.0	<1.0
Chloroform	62.0	26.0	14,100	1195	99	1400	<5.0	<5.0	<0.5
Chloromethane	5,500	390	~	1846	146	10000	<5.0	<5.0	<0.5
2-Chlorotoluene	~	~	~	2426	200	10000	<5.0	<5.0	<0.5
4-Chlorotoluene	~	~	~	2158	178	70	<5.0	<5.0	<0.5
1,2-Dibromo-3-Chloropropane	~	~	~	~	~	~	<10.0	<10.0	<1.0
1,2-Dibromoethane	11.0	0.30	~	~	~	~	<5.00	<5.00	<0.50
Dibromomethane	~	~	~	_~	~	~_	<5.0	<5.0	<0.5
1,2-Dichlorobenzene	50,000	5,100	170,000	50000	5579	230	<5.0	<5.0	<0.5
1,3-Dichlorobenzene	50,000	4,300	26,000	1428	119	220	<5.0	<5.0	<0.5
1,4-Dichlorobenzene	3,400	1,400	26,000	3585	1489	94	<5.0	<5.0	<0.5
trans-1,4-Dichloro-2-Butene	~	~	~	~	~	~	<10.0	<10.0	<1.0
Dichlorodifluoromethane	1,200	91.0	~	1240	101	10000	<5.0	<5.0	<0.5
1,1-Dichloroethane	41,000	3,000	~	9452	762	4100	<5.0	<5.0	<0.5
1,2-Dichloroethane	68.0	6.5	2,970	63	6	2967	<5.0	<5.0	<0.5
1,1-Dichloroethylene	920	190	96.0	1464	117	2100	<5.0	<5.0	<0.5
cis-1,2-Dichloroethylene	11,000	830	~	11472	928	6200	<5.0	<5.0	<0.5
trans-1,2-Dichloroethylene	13,000	1,000	~	6673	536	5600	<5.0	<5.0	< 0.5

	E	xisting CT RSR Crite	ria	Pr	oposed CT RSR Crit	eria	SAMPLING	LOCATION	
Parameter	I/C VC	RES VC	SWPC	I/C VC	RES VC	SWPC	MW	MW DUP	TRIP BLANK
Sampling Date							9/23/08	9/23/08	9/23/08
Sample Depth							NA	NA	NA
Laboratory Report Number							LIMT-19963	LIMT-19963	LIMT-19963
1,2-Dichloropropane	58.0	7.4	~	110	8.5	2195	<5.0	<5.0	<0.5
1,3-Dichloropropane	~	~	~	~	~	~	<5.0	<5.0	< 0.5
2,2-Dichloropropane	~	~	~	~	~	~	<5.0	<5.0	< 0.5
1,1-Dichloropropene	~	~	~	~	~	~	<5.0	<5.0	< 0.5
cis-1,3-Dichloropropene	360	11.0	34.000	243	5	17	<10.0	<10.0	<1.0
trans-1,3-Dichloropropene	360	11.0	34,000	243	5	17	<10.0	<10.0	<1.0
Diethyl Ether	~	~	~	~	~	~	<5.0	<5.0	<0.5
Diisopropyl Ether	~	~	~	~	~	~	<5.0	<5.0	<0.5
1.4-Dioxane	~	~	~	~	~	~	<500 UJ	<500 UJ	<50.0 UJ
Ethyl Benzene	36,000	2,700	580,000	21915	1763	610	<5.0	<5.0	<0.5
Hexachlorobutadiene	~	~	~	~	~	~	<4.0	<4.0	<0.4
2-Hexanone	~	~	~	~	~	~	<20.0	<20.0	<2.0
Isopropylbenzene	6.800	2.800	~	2193	898	210	<5.0	<5.0	<0.5
p-Isopropyltoluene	22,000	1,600	~	~	~	165	<5.0	<5.0	<0.5
MTBE	50.000	21.000	~	50000	22013	10000	<5.0	<5.0	<0.5
Methylene Chloride	2,200	160	48,000	2171	159	10000	<5.0	<5.0	3.7
MIBK	50,000	13,000	~	50000	50000	10000	<20.0	<20.0	<2.0
Naphthalene	~	~	~	~	~	~	<10.0	<10.0	<1.0
n-Propylbenzene	~	~	~	~	~	~	<5.0	<5.0	<0.5
Styrene	42,000	3,100	~	42853	3473	240	<10.0	<10.0	<1.0
1,1,1,2-Tetrachloroethane	64.0	2.0	~	148	4	850	<10.0	<10.0	<1.0
1,1,2,2-Tetrachloroethane	54.0	1.8	110	39	1.4	324	<5.0	<5.0	<0.5
Tetrachloroethylene	810	340	88.0	200	82	504	<5.0	<5.0	<0.5
Tetrahydrofuran	~	~	~	5722	493	10000	<50.0	<50.0	<5.0
Toluene	41,000	7,100	4,000,000	41584	5876	620	<5.0	<5.0	<0.5
1,2,3-Trichlorobenzene	~	~	~	~	~	~	<5.0	<5.0	<0.5
1.2.4-Trichlorobenzene	~	~	~	1546	122	50	<5.0	<5.0	<0.5
1.1.1-Trichloroethane	16.000	6.500	62.000	20439	2541	760	<5.0	<5.0	<0.5
1.1.2-Trichloroethane	2.900	220	1.260	126	10.7	1263	<5.0	<5.0	<0.5
Trichloroethylene	67.0	27.0	2,340	63	26	343	<5.0	<5.0	<0.5
Trichlorofluoromethane	4,200	1.300	2,040	4263	1739	10000	<5.0	<5.0	<0.5
1,2,3-Trichloropropane	~,200	~	~	~	~	~	<5.0	<5.0	<0.5
1.1.2-Trichloro-1.2.2-Trifluoroethane	~	~	~	812	331	10000	<5.0	<5.0	<0.5
1,2,4-Trimethylbenzene	4,800	360	~	1485	122	160	<5.0	<5.0	<0.5
1,3,5-Trimethylbenzene	3.900	280	~	1167	96	260	<5.0	<5.0	<0.5
Vinyl Chloride	52.0	1.6	15,800	24.4	0.6	385	<5.0	<5.0	<0.5
m + p Xylene	48,000	8.700	~	25558	2052	270	<10.0	<10.0	<1.0
o-Xylene	48,000	8,700	~	25558	2052	270	<5.0	<5.0	<0.5
cyanide-total (mg/l)	40,000	0,700	<u> </u>	20000	2002	210	10.0	10.0	Q0.0
Cvanide	~	~	0.052	~	~	.052	<0.010*	0.6*	NT
hg (mg/l) wet (mg/l)	+ ~	 	0.002			.002	VO.010	0.0	INI
Mercury	~	~	0.00040	~	~	.0077	0.00020	0.00019	NT
			0.00040			.0077	0.00020	0.00010	191

Notes:

- NT = Not tested.
- 2. ~ = No Standard available
- 3. A bold outlined cell indicates that the minumum laboratory reporting limit exceeds one or more of the regulatory criteria.
- 4. A shaded cell indicates value is in exceedence of a CT Remediation Standard Regulation. Specific exceedences are indicated as follows:
- + Value exceeds Volatilization Criteria
- * Value exceeds Surface Water Protection Criteria
- 5. I/C VC = industrial/commercial volatilization criteria, RES VC = residential volatilization criteria, SWPC = surface water protection criteria
- 6. RSR criteria are in same units as analyte.
- 7. Results are only compared to existing CT RSRs. No exceedances to revised CT RSRs are called out. Revised CT RSRs shown for informational purposes only. A summary of exceedance changes due to the revised RSRs is provided in Table 7.

U = the compound was analyzed for, but was not detected at the associated value due to blank contamination or variance from other quality control limits.

- J = the associated value is an estimated quantity. The reported result is qualitatively accurate but quantitatively imprecise.
- UJ = the compound was analyzed for, but was not detected, and the associated value is an estimated value due to the variance from quality control limits.

CALCULATING THE 95% UPPER CONFIDENCE LEVEL (UCL)

STATEMENT OF PURPOSE

The confidence level is a tool for acknowledging uncertainties and variability within an environmental data set without presenting an unacceptable risk to human health or the environment. In environmental studies, the uncertainties are commonly due to limited sampling data. The 95% upper confidence level defines a value that equals or exceeds the true mean 95% of the time. The RSRs allow for the use, in some instances, of this statistical method to demonstrate compliance with the Direct Exposure Criteria (DEC) and/or the Pollutant Mobility Criteria (PMC). This statistical method can only be used when no single sample concentration exceeds twice the applicable concentration.

DATA COLLECTION

A sufficient number of samples must be collected to adequately characterize each area of concern. The Department expects at least 20 samples for each release area. Also the samples must be collected from the same stratigraphic unit or area of concern. For instance, if soil contamination is consistently found at the water table, at a high organic content layer, or at an area of lower permeability, then that stratigraphic unit should be subject to sampling and statistical analysis. The 95% UCL is not intended to average concentrations across a site or release area without regard to contaminant distribution.

When laboratory analyses for a sample indicate that the substance of concern is not detected above the method detection limit, one-half of the detection limit should be used for that sample concentration value when calculating the 95% UCL.

DETERMINING NORMALITY

The first step in the statistical analysis is to determine normality. Determining the distribution of the data is necessary for selecting the proper equations for the calculation of the 95% UCL. The Department recommends the W-test, but other appropriate tests for normality may be used. If sufficient data exists, a normal probability plot of the data (either raw or transformed with the natural logarithm function) may be sufficient to determine the normality of the data set. If the normality of the data set is not obvious from the normal probability plot, alternative methods for the normality analysis must be utilized.

LOG NORMALLY DISTRIBUTED DATA SETS

The following steps are taken to calculate the 95% UCL for log normally distributed data.

- Transform the data set by calculating the natural logarithm of each data point (ln(x)).
- Calculate the standard deviation of the transformed data (s).
- Determine the H-statistic for computing a one-sided 95% upper confidence level on a lognormal mean interpolating where necessary (Gilbert, 1987 or other statistics reference).
- Calculate the 95% UCL utilizing the following equation:

UCL= e
$$y^{(-+0.5s2+SH/\sqrt{(n-1)})}$$

Where: y = mean of the transformed data.

s = standard deviation of transformed data s = $\frac{n(y^{-2})-(y)^{-2}}{n(n-1)}$

H= H-statistic (from reference tables in Gilbert or other statistics reference).

n = number of samples.

e = constant (base of the natural log = 2.718)

EXAMPLE

LOG NORMALLY DISTRIBUTED DATA

Data set for hexavalent chromium (mg/kg) in soils: 10, 13, 180, 97, 85, 101, 125, 77, 27, 13, 15, 100, 65, 32, 14. The residential and industrial/commercial DEC is 100 mg/kg.

- 1. Check that each sample concentrations is less than twice the applicable criteria.
- 2. Check the normality of the data. Assume these data are log normally distributed.
- 3. Transform the data by taking the natural log of the data (ln(x)).

x (mg/kg)	ln(x)=y	x (mg/kg)	ln(x)=y
10	2.30	13	2.56
180	5.19	97	4.57
85	4.44	101	4.62
125	4.83	77	4.34
27	3.30	13	2.56
15	2.71	100	4.61
65	4.17	32	3.47
14	2.64		

- 4. Calculate the UCL using the transformed data.
 - Mean of transformed data: y = 3.76.
 - Standard deviation of transformed data: $s = n(\sum y^2) (\sum y)^2 = 0.997$ n(n-1)
 - H-statistic (from reference tables) H= 2.744 (based on 95%).
 - Number of samples n= 15.

Plugging into the UCL equation:

• UCL =
$$e^{(3.7 + 0.5(0.997)^2 + 0.997(2.744)/\sqrt{(15-1)}})$$
 = 146 mg/kg

Therefore, the calculated 95% upper confidence level of 146 mg/kg is greater than the residential and industrial/commercial DEC of 100 mg/kg.

NORMALLY DISTRIBUTED DATA SETS

Environmental data sets are occasionally normally distributed. If a data set is normally distributed then the following steps are taken to calculate the 95% UCL.

- Calculate the arithmetic mean of the data.
- Calculate the standard deviation of the data.
- Determine the one-tailed t-statistic where 1 0.95 and 1 = 0.025 (from reference tables in Gilbert or other statistic reference).
- Calculate the UCL.

$$UCL = \overline{x} + t \left(s / \sqrt{n} \right)$$

Where: x = mean of untransformed data

s= standard deviation of untransformed data s = $\frac{n(|x|^2)-(|x|)^{-2}}{n(n-1)}$

t = student-t statistic

n= number of samples

EXAMPLE

NORMALLY DISTRIBUTED DATA

Data for carbon tetrachloride in soils (in mg/kg) are: 0.7, 0.5, 0.3, 0.35, 0.9, 1.0, 1.1, 0.7, 1.1, 0.8, 0.9, 0.4, 0.45, 0.2, 1.2. The GB PMC is 1 mg/kg.

1. Check that each sample concentrations is less than twice the applicable criteria.

- 2. Check the normality of the data. Assume these data are normally distributed.
- 3. Calculate the UCL.
 - Mean of the data: $\bar{x} = 0.71$.
 - Standard deviation of the data set: s = 0.32
 - Student-t statistic (from reference tables): t(0.025) = 2.145
 - Number of samples: n = 15

Plugging these numbers into the UCL equation for normally distributed data sets:

UCL =
$$0.71 + 2.145 (0.32 / \sqrt{15}) = 0.89 \text{ mg/kg}$$

Therefore the calculated 95% upper confidence level of 0.89 mg/kg is less than the GB PMC of 1 mg/kg.

REPORTING

Include all calculation sheets, including any graphing or calculations performed to determine normality, in reports submitted to the Department.

REFERENCE

Gilbert, Richard O., 1987. Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold, New York.

U.S. EPA, <u>Supplemental Guidance to RAGS: Calculating the Concentration Term</u>. EPA Publication 9285.7-081, May 1992.

Appendix I 95% UCL Data Input 80 Hastings Street Bridgeport, CT AECOM Environment

İ												SAI	MPLE LOCAT	ON											
	1	2	12	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	34	35	36
Sample Date	9/8/2008	9/8/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/23/2008	12/23/2008	12/23/2008
Metals (15pp) sicp (mg/kg dry wt)																									
Arsenic	8.53	14.5	7.74	8.91	1.43	10.2	5.10	6.29	6.17	5.31	8.92	6.95	7.83	6.31	6.14	7.95	7.32	16.80	8.57	6.21	6.22	6.50	6.635	7.72	5.51

Note:
Higher value of duplicate samples used for UCL analysis.
SB-34, 35, and 36 each analyzed for arsenic at two depth intervals. The average of each was used for UCL analysis.
Half of the non-detect value (for SB-15) was used for UCL analysis.

	General UCL Statistics	for Full D	ata Sets			
User Selected Options					====	
	X:\60045450 (80 Hastin	gs, Bridgep	oort)\400 Ted	chnical\403 Phase	III ESA\95% UCL.wst	
Full Precision	OFF					
Confidence Coefficient	95%					
Number of Bootstrap Operations	2000					
Arsenic						
		General	Statistics			
Numbe	er of Valid Observations	25		Nur	mber of Distinct Observations	25
			ı			
Raw Si				Log-tran	sformed Statistics	0.050
	Minimum	1.43			Minimum of Log Data	0.358
	Maximum	16.8			Maximum of Log Data	2.821
	Mean	7.591			Mean of log Data	1.949
	Median SD	6.95 2.975			SD of log Data	0.435
	Coefficient of Variation	0.392				
	Skewness	1.457				
	2VGMHG22	1.407				
	F	Relevant U	CL Statistics	 S		
Normal Dist	ribution Test			Lognorm	al Distribution Test	
Sh	apiro Wilk Test Statistic	0.836			Shapiro Wilk Test Statistic	0.805
Sha	apiro Wilk Critical Value	0.918			Shapiro Wilk Critical Value	0.918
Data not Normal at 5	% Significance Level			Data not Lognorm	nal at 5% Significance Level	
Assuming Norr	mal Distribution			Assuming L	ognormal Distribution	
	95% Student's-t UCL	8.609			95% H-UCL	9.143
` <u> </u>	sted for Skewness)				5% Chebyshev (MVUE) UCL	10.69
C	95% Adjusted-CLT UCL	8.755			5% Chebyshev (MVUE) UCL	11.99
	95% Modified-t UCL	8.638		9	9% Chebyshev (MVUE) UCL	14.55
<u> </u>	mile value Took			Б.	o Dieseih osi	
Gamma Dist	ribution Test k star (bias corrected)	E 020	Do		a Distribution	5)
		5.839	ра	ia uo noi iollow a	Discernable Distribution (0.0	(ر
	Theta Star	1.3				
	nu star			Nonnar	ametric Statistics	
Annrovimato	Chi Square Value (OE)	252 /			amouro 0:00:00:00	
''	Chi Square Value (.05)	253.4		Попра		8 560
Adjust	ed Level of Significance	0.0395		Попраг	95% CLT UCL	8.569 8.609
Adjust	, ,			·	95% CLT UCL 95% Jackknife UCL	8.609
Adjust	ed Level of Significance usted Chi Square Value	0.0395 250.9		·	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL	8.609 8.535
Adjusto Adju Anderso	ed Level of Significance	0.0395		·	95% CLT UCL 95% Jackknife UCL	8.609
Adjusto Adju Anderso Anderson-D	ed Level of Significance usted Chi Square Value on-Darling Test Statistic	0.0395 250.9 1.256		9	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	8.609 8.535 9.011
Adjuste Adjuste Anderso Anderson-D Kolmogoro	ed Level of Significance usted Chi Square Value on-Darling Test Statistic earling 5% Critical Value	0.0395 250.9 1.256 0.746		9	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	8.609 8.535 9.011 9.81
Adjuste Adjuste Anderso Anderson-D Kolmogoro	ed Level of Significance usted Chi Square Value on-Darling Test Statistic earling 5% Critical Value v-Smirnov Test Statistic nirnov 5% Critical Value	0.0395 250.9 1.256 0.746 0.187 0.175		95	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 5% Percentile Bootstrap UCL	8.609 8.535 9.011 9.81 8.618
Adjuste Adjuste Anderson-D Kolmogorov-Sn	ed Level of Significance usted Chi Square Value on-Darling Test Statistic earling 5% Critical Value v-Smirnov Test Statistic nirnov 5% Critical Value	0.0395 250.9 1.256 0.746 0.187 0.175		95%	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 5% Percentile Bootstrap UCL 95% BCA Bootstrap UCL	8.609 8.535 9.011 9.81 8.618 8.77
Adjuste Adjuste Anderson-D Kolmogorov-Sn	ed Level of Significance usted Chi Square Value on-Darling Test Statistic earling 5% Critical Value v-Smirnov Test Statistic nirnov 5% Critical Value ed at 5% Significance L	0.0395 250.9 1.256 0.746 0.187 0.175		95% 95% 97.5%	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 5% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 6 Chebyshev(Mean, Sd) UCL	8.609 8.535 9.011 9.81 8.618 8.77 10.18
Adjuste Adjuste Adjuste Anderso Anderson-D Kolmogorov-Sn Data not Gamma Distribute Assuming Gam	ed Level of Significance usted Chi Square Value on-Darling Test Statistic earling 5% Critical Value v-Smirnov Test Statistic nirnov 5% Critical Value ed at 5% Significance L	0.0395 250.9 1.256 0.746 0.187 0.175		95% 95% 97.5%	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 5% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 6 Chebyshev(Mean, Sd) UCL 6 Chebyshev(Mean, Sd) UCL	8.609 8.535 9.011 9.81 8.618 8.77 10.18 11.31
Adjuste Adjuste Adjuste Anderso Anderson-D Kolmogoro Kolmogorov-Sn Data not Gamma Distribute Assuming Gam 95% Ap	ed Level of Significance usted Chi Square Value on-Darling Test Statistic arling 5% Critical Value v-Smirnov Test Statistic nirnov 5% Critical Value ed at 5% Significance Leman Distribution	0.0395 250.9 1.256 0.746 0.187 0.175 evel		95% 95% 97.5%	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 5% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 6 Chebyshev(Mean, Sd) UCL 6 Chebyshev(Mean, Sd) UCL	8.609 8.535 9.011 9.81 8.618 8.77 10.18 11.31
Adjuste Adjuste Adjuste Anderso Anderson-D Kolmogoro Kolmogorov-Sn Data not Gamma Distribute Assuming Gam 95% Ap	ed Level of Significance usted Chi Square Value on-Darling Test Statistic arling 5% Critical Value v-Smirnov Test Statistic nirnov 5% Critical Value ed at 5% Significance Lema Distribution proximate Gamma UCL	0.0395 250.9 1.256 0.746 0.187 0.175 evel		95% 95% 97.5%	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 5% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 6 Chebyshev(Mean, Sd) UCL 6 Chebyshev(Mean, Sd) UCL	8.609 8.535 9.011 9.81 8.618 8.77 10.18 11.31

or 95% Modified-t UCL 8.638